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July/August 1982

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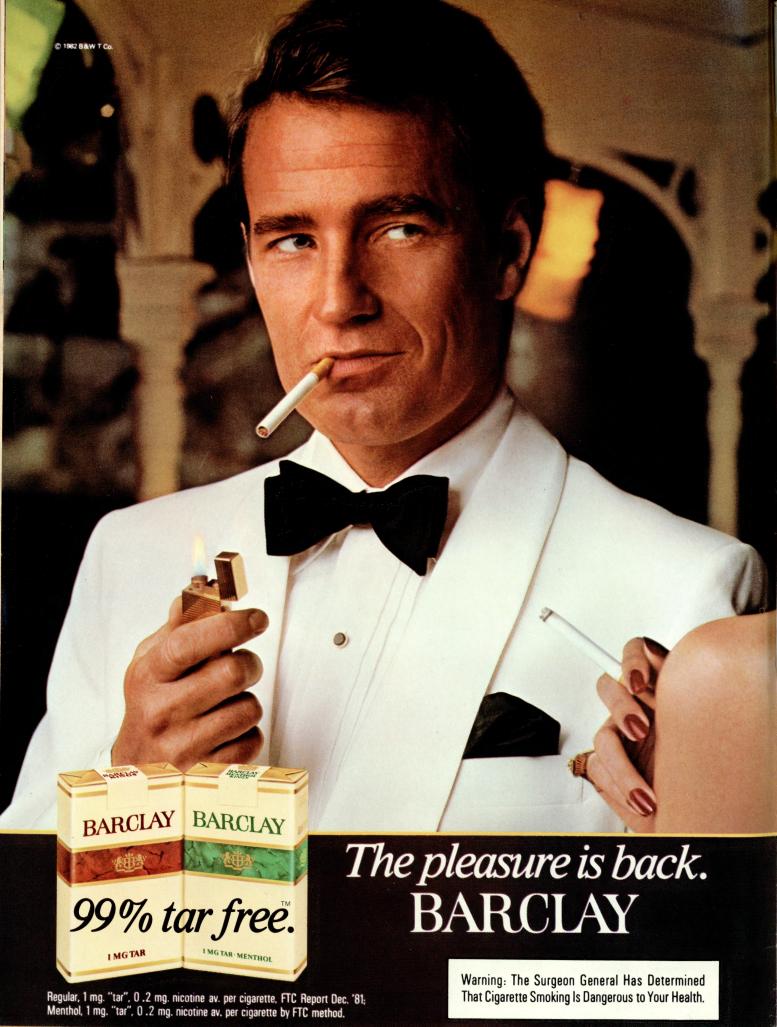
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Can you identify
THE FLAGS
THE SUMMER
OF SUMMER
flying in the sky: Answer, page 72

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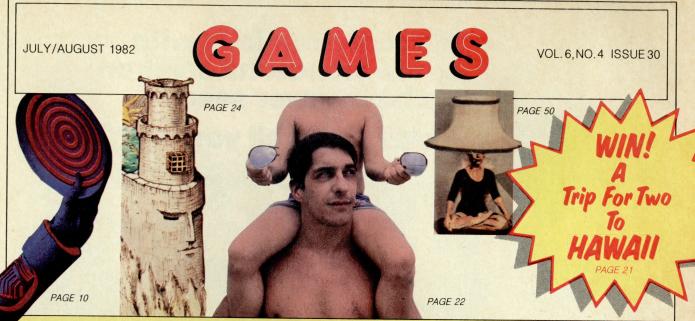
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GA 7/2



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Proceed at Your Own Risk! ★★★

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72 Eureka



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Next Time We'll Have to Make It Harder

I t all began one dull Wednesday afternoon as I was reading the March/April issue of $\it Games$. It hadn't been a good week. My car had been repossessed, my girlfriend had left me but her mother hadn't, and, worst of all, I could only solve five faces of my Rubik's cube. Then it happened.

I was idly counting the advertisements in your magazine when it occurred to me that ads appeared on exactly 27 pages. This minus the fake ad equaled 26—the exact number of letters in our alphabet!! I tried to keep my head, but my heart was beating wildly.

Next, I made out a Hanrath Decoder by numbering the alphabet as follows: A=1, B=2, C=3, etc. Then I took the letters corresponding to the numbers of the pages of ads up to the first prime number past 13 (the "unlucky number"—and the number of letters in the words HIDDEN CON-TEST). I came up with A, C, E, F, I, M, and P, which, rearranged, spell IMP FACE. This was too precise to be attributed to sheer coincidence.

But where was the imp face? I riffled through the issue until I found the joker on page 33, of course (the double-3 of folklore). What could be more lucky? But what to do now? I took the initials of the last names of the celebrities on pages 32 and 33 ("Cryptoquips") and got H, N, A, G, R, A. This came out to be HAG RAN. I searched for a hag. I got to page 18 when, lo and behold, the sixth figure from the left was a hag running!! The word GOTCHA on the top of the page signaled that I was on my way.

I added the numbers corresponding to the letters of GOTCHA, and got 54. I quickly turned to that page. I played "Shelters" with my roommate. After he won, my last piece was on a girl. "Aha!" I thought to myself, as I leafed to page 34. The example for the game "Wtht Vwls" was GRL—girl. Unfortunately, here I was stumped. "Damn!" thought I. That was it! The third example for GRL was EAGERLY, eagerly as a beaver. Looking up beaver in my Webster's, I found "either of two large semiaquatic rodents having webbed hind feet and a broad flat tail." That was just like a duck-billed platypus!! Obviously, my next move was to turn to page 29 to study the platypus in all its glory. On the opposite page, I noticed that three of the four letters in the word "dish," which started the "Picture Proverb" puzzle, begin the word "hidden." I knew now that I was on target.

That same puzzle was by "A. Braine" (sure!). And where was "a brain"? Well, in the skull on page 15 of course! And glory be! It was on the page opposite the fake ad! We were right back where we started (you guys are so darn tricky!). I took the words OHIO SPRINGS, read them backwards to get SGNIRPS OIHO. Now that did not make sense. Sense, cents, of course, what else besides April Fools happens in April? You pay your taxes!! And Groucho Marx was depicted on your cover. It could only mean cents, dollars, taxes-DOLLARS, TAXES!!!!!

Needless to say, I caught the next flight to Dallas, Texas. On the plane, I began to wonder where to start. Then I realized that something from "Ohio Springs" would probably give me a clue. I also remembered that I had answered "Valley" to number 9 in your "Odd Couples" puzzle on page 31. Of course, thought I, Spring Valley Road!!! But what number on that road? Since "Ohio Springs" mineral water is 94 percent natural, I multiplied 94 by the number of pages in the issue plus 3 (for luck). Well, 94 times 75 equals 7,050. I thought it wise to subtract 2, the number of missing "Frame-Up" pictures (page 22), I noticed, which gave me a grand total of 7,048.

When I got off the plane I took a cab directly to 7048 Spring Valley Road and began digging. Exactly three hours, 33 minutes, and 33.33 seconds later (at 3:33 A.M.) I found the enclosed card.

Hidden Contest Boy are you smart Send in to Games Magazine right away!

Imagine my surprise as my dusty, dirty hands clung to the prized piece of cardboard. Boy, you guys will stop at nothing in your hidden contests.

John Hanrath, Madison, WI

Your Move is an occasional column of comments and puzzles by readers. See page 60 for the real results of the March/April hidden contest.

GAMES

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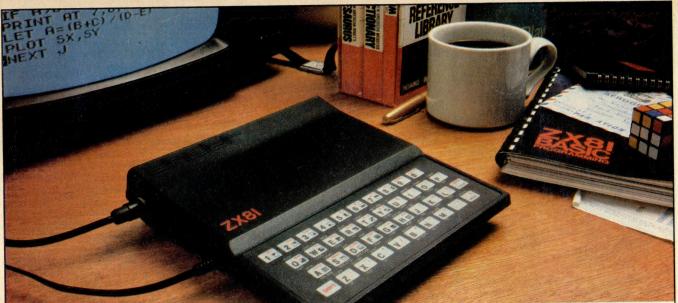
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INSERTS: Discover between pages 46-47

Franklin Mint between pages 64-65



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LETTERS

Irish Bullets

As a proud Irish descendant, I can attest to many twists of the tongue—both spoken and heard—that would qualify for your contest 'An Irish Bull Is Always Pregnant" (March/ April). But watch out! Many an Irish phrase, begun illogically, ends as the subtlest of humor. In the Milwaukee Journal, Hugh A. Mulligan illustrates how the "bull" can become a "bullet.

Mulligan quotes a member of the old Irish Parliament, Sir Boyle Roche. "Not being a bird, I can't be in two places at once." Another Rocheism was, "The cup of Ireland's sorrows has been overflowing for centuries and isn't full yet."

Mulligan goes on to relate these classic bullets. "Charles Laughton once proudly announced in the Gresham Hotel that he had come to Dublin to do a one-man show. 'That's grand,' said the barman, 'who's in it?'

"A grizzled old farmer in County Armagh was anxiously awaiting his brother's return from America after an absence of 42 years. 'I'm not sure I'll recognize him after all this time,' the farmer worried out loud to his cronies at the crossroads pub, 'but he'll know me all right.' 'How will he know you?' the publican took the bait. 'Well, I haven't been away.

It should be obvious from these examples that if you manage to get an Irishman to talk, it's harder still to quiet him

Robert D. O'Keane Colgate, WI

For more Irish Bulls, see Contest Results, page 60. -Ed.

Dubitable Dudeney?

Henry Dudeney (March/April, pages 40-41) may have been England's greatest mathematical puzzle inventor, but he knew beans about spiders and flies. The first problem is how the spider and the fly came to be in the closed box at all. The second problem lies in the nature of spiders and flies.

How could the spider (known to have poor eyesight) have sensed the fly over 30 feet away, and why would the fly remain stationary as a predator approached? Given these two improbables, the fly must be dead! In that case, the spider wouldn't be interested.

.But for the sake of the puzzle I'll deal blindly with the givens. Here's a spider smart enough to unfold a cardboard box. It should realize that if it folded in the end flaps of the box (fig. 1, Answer Drawer) along the lines, it would be within 18 feet of the fly. And if it folded the box at the bisector of the line between A and B, it would land directly on top of the fly and not have to crawl at all.

> David Brune Columbia, SC

Bearing Gifts

I'm in the middle of unraveling my first issue of Games and want to let you know it has lived up to all my expectations. It's a gift from my mother-in-law, who prides herself on frustrating me at every chance she gets. Please keep the magazines coming.

Dennis W. Teige, Ph.D. Springfield, IL

Envelope of the Month



Scott Howard Lakewood, CA

It's No Picnic

No matter how difficult the question, it seems that a Games reader always has the answer. Here is a question that I consider

In English, a C is generally pronounced as an S when it precedes an I or an E, and as a K when it precedes any other letter. For example, dictionaries require that a K be added with any suffix to the word PICNIC. Adding a K to the spelling of PICNICKERS assures the proper pronunciation.

I have found an exception to this generalization, and challenge other readers to find the word, as well as other exceptions.

Frank Magary Miramar, FL Answer Drawer, page 68

Confession Department

I've recently begun reading your magazine in a different manner. First I read the Letters section to see if anyone else has confessed, and then I read the Answer Drawer. Since implementing this plan, life has taken on new meaning. My consumption of extra-strength Tylenol has diminished, the wife, kids, and dog have moved back in, and justifiable homicide has regained its proper perspective in my

> Ionathan Perkins Los Angeles, CA

Splibnd

Thnks s mch fr "Wtht Vwls" (Mrch/prl, pg 34); wh nds thm? Rlly njd trng ll th dffrnt vwl cmbntns, bt wld hv bn rd fr "euthanasia" [# 11] bfr thnkng f t!

> Trr Cnnll Prr d Chn, Wscnsn

Olé Molé

In solving Photocrime "Swan Song in San Valencia" (January/February), I deduced by the pin's position through the note that General Molé was left-handed and was therefore the murderer. But like Christina Bradley (Letters, March/April), I was struck by the unlikely position of Molé's fork and knife. I'm a lefty, as are many of my friends, and we use forks in the "Continental" style. My fork stays in my left hand, my knife in my right hand. At the end of a meal, my fork and my knife either lie one across the other (the opposite of the picture in the Photocrime) or, like any righty's, side by side. Eating is much easier this way, and it doesn't take much practice.

Melissa Ann Singer New York, NY

Considering the letters we received from lefties wielding knives in their right hands, we humbly eat the word "invariably."—Ed.

E.A.T. Your Heart Out

Not only did unattributed photocopies of your "Equation Analysis Test" (May/June 1981 and May/June 1982) circulate in offices, saloons, and shopping centers, it also made the rounds at a doctoral seminar I attended recently at Rutgers University. Ironically, in a room full of reference and other specialized librarians, I was the only one who could identify the source and verify our answers. I may not get an "A" in the course, but I'm smart enough to subscribe to Games!

E. J. Nemeth Highland Park, NJ

Thank you for setting my mind at ease. I've been going crazy trying to remember where I first saw the "Equation Analysis Test."

I had originally enjoyed solving the test in Games, but when a copy of the test surfaced in my office a few months ago, I couldn't remember why it was familiar. The mother of the woman who brought it to the office thought a man in prison had created it. Needless to say, I impressed my co-workers by correctly completing it in 20 minutes.

David L. Schneier Middletown, NY

LAUNDRY BASKET

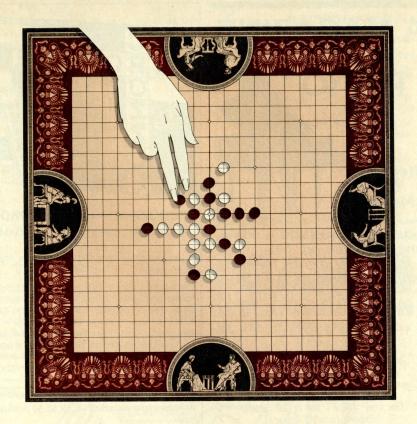
The rules of the game—it is a game, isn't it!—are: If a reader finds a mistake that affects the play of a game, or a significant error of fact, and we agree the slip needs to be laundered, we'll publish the first or most entertaining letter that points it out. If we publish your letter in the Laundry Basket, we'll thank you with a Games T-shirt.

Mistakes: May/June

★In "The World's Most Ornery Crossword" (page 43), hard clue 17-Down reads "Red chief?" Your answer, "Czar," is like calling George III a Yankee Doodle Dandy.

David Kraines Durham, NC

★In "The World's Most Ornery Crossword," hard clue 18-Down reads "Escherichia_____,



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culture medium." Your answer, "coli," is a bacteria that is often grown in a culture, but it is certainly not the medium.

Bill Terwilliger Summit, MI

★In "The World's Most Ornery Crossword," hard clue 75-Down reads "Biblical 'bore'?" but your answer, "begat," doesn't match the clue. As used in the Bible, begetting is strictly a male function. The hard work of bearing, then as now, is a female function.

Paul Hobson Oshkosh, WI

★The rules of your "Unidentified Flying Games" contest (November/December 1981) stated that "each name must be written exactly as it appears (in boldface)." Your Contest Results (page 60) did not have the word "Deluxe" after SCRABBLE BRAND CROSS-WORD GAME, as the listing appeared in "The Games 100."

Bruce Werner Big Rapids, MI

This was a proofreading error on our part. All contest winners did list all 52 games correctly in their entries.—Ed.

★Your answer to "Cinematic Countdown" (Wild Cards, page 67) included "Eight Days in May." The Burt Lancaster-Kirk Douglas thriller and the novel on which it is based are both entitled Seven Days in May.

Frank Dillon Beachwood, OH

We meant to list the unforgettable Eight Iron Men starring Bonar Colleano.—Ed.

March/April

★Guess what? You've inadvertently created a hoax within a hoax. At one point in the article "Porn Again" (page 20), Mike McGrady's last name is incorrectly given as McGrath.

Steve Grady Lincolnshire, IL

★Photo number 3 in "Fins of the Fifties" (page 50) is of a 1955 Thunderbird, not a 1956 as listed. The differences are a 1-inch diameter ring in the center of the taillights (the '55 had them and the '56 didn't), and oval exhaust ports in the rear bumper (the '56 had them and the '55 didn't).

Dennis Ryan Batavia, IL

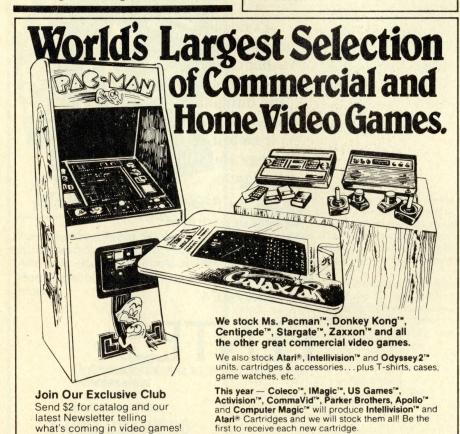
On checking, we find that the Thunderbird is indeed a '55, but that it has the roof of a '56. Will you give us half credit?—Ed.

★In your "Three of a Kind" Wild Card (page 61), you stated that the three cardinal virtues are Faith, Hope, and Charity. These are the theological virtues. The cardinal virtues are Prudence, Justice, Temperance, and Fortitude.

Sister Cordette
Effingham, IL

★I beg to differ with your answer to the "Tomfoolery" Wild Card (page 64) in which you state that Thomas Edison "invented" the chemical phenol. This chemical exists in nature and probably has since the creation. It is impossible to "invent" something that exists.

Steven W. Larsen St. Louis, MI



GAMES

EVENTS

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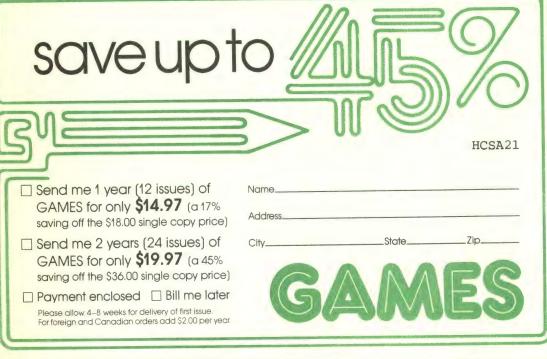
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12 rounds for \$10,000 in cash prizes and the title of U.S. Open Champion. Contact: Peter Prochaska, USCF, 186 Rte. 9W, New Windsor, NY 12550, or call (914) 562-8350.

Crosswords Games Magazine's U.S. Open Crossword Puzzle Championship, in New York City, on August 14. The 250 finalists who survived the qualifying rounds will compete for the \$2,750 purse. Contact: Crossword Tournament, Games Magazine, 515 Madison Avenue, New York, NY 10022, or call (212) 421-5984.

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GAMES July/August 1982



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culture medium." Your answer, "coli," is a bacteria that is often grown in a culture, but it is certainly not the medium.

Bill Terwilliger Summit, MI

★In "The World's Most Ornery Crossword," hard clue 75-Down reads "Biblical 'bore'?" but your answer, "begat," doesn't match the clue. As used in the Bible, begetting is strictly a male function. The hard work of bearing, then as now, is a female function.

Paul Hobson Oshkosh, WI

★The rules of your "Unidentified Flying Games" contest (November/December 1981) stated that "each name must be written exactly as it appears (in boldface)." Your Contest Results (page 60) did not have the word "Deluxe" after SCRABBLE BRAND CROSSWORD GAME, as the listing appeared in "The Games 100."

Bruce Werner Big Rapids, MI

This was a proofreading error on our part. All contest winners did list all 52 games correctly in their entries.—Ed.



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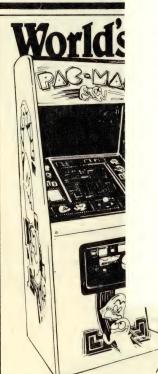
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Tub racers dip oars in Oakland for fun and profit.

Bocce Sixth Annual Invitational National Bocce Tournament, in Asbury Park, New Jersey, July 17-18. Nearly 200 games and 22 hours of competition culminate in crowning the U.S. champion of this ancient lawn-bowling game. Contact: Anthony Petillo, National Bocce Tournament, Convention Hall, Boardwalk, Asbury Park, NJ 07712.

Checkers The 1982 National Checker Tournament, in Tupelo, Mississippi, August 8-14. Open to any player in the world, this tourney offers more than \$15,000 in prize money and the national title—and from there, it's just a jump to the World Championship. Contact: W.B. Grandjean, American Checker Federation, 3475 Belmont Avenue, Baton Rouge, LA 70808.

Chess The U.S. Open Championship, at the Radisson Plaza in St. Paul, Minnesota, August 8-20. Players from beginner to grandmaster go 12 rounds for \$10,000 in cash prizes and the title of U.S. Open Champion. Contact: Peter Prochaska, USCF, 186 Rte. 9W, New Windsor, NY 12550, or call (914) 562-8350.

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Juggling The International Jugglers Association will meet in Santa Barbara, California, July 12-17. Top tossers from around the country will match their skills throughout this convention. Contact: IJA, Box 29, Kenmore, NY 14217.

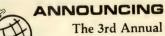
Lumberjack Games Lumberjack World Championships, in Hayward, Wisconsin, July 30-August 1. The greatest of the Great North woodsmen gather to split, shinny, and roll—logs, that is. Contact: Lumberjack World Championships, Hayward, WI 54843.

Photography Horticulture Magazine is sponsoring a photo contest throughout this summer. Subjects include: plants in cultivation (grown indoors), plants in the wild, and blooming sequences. The grand-prize of \$1000 ought to start those shutters snapping long before the June 30 deadline. Contact: Horticulture Photo Contest, 300 Massachusetts Avenue, Boston, MA 02115, or call (617) 247-4100.

Pillow Fighting The 16th Annual World Pillow-Fighting Championships, in Kenwood, California, July 4. Contestants straddle a slippery pipe above a mud pit and sock each other with pillows until one or both topple. Contact: Kenwood Firemen's Association, Box 214, Kenwood, CA 95452.

War and Adventure Gaming If fireworks and fantasy are your idea of fun, here are two summer blasts:

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GAMEBITS

Edited by Curt Slepian



A video villain played by David Warner prepares to fling a killer Frisbee.

Inside Tron

Playing video games can be an intense experience, but have you ever wondered what the action's like *inside* the video playfield?

Jeff Bridges finds out in *Tron*, a Walt Disney movie scheduled for release in mid-July. In this futuristic adventure story, Bridges plays a computer genius who is forced into an electronic world where he must fight for survival in a series of arcade games come to life. (To coincide with the movie's release, Bally will introduce an arcade version of *Tron*; and look for handheld and board versions as well.)

In one of the movie's video games, Bridges confronts enemy players with an "identity disc"—a lethal combination of laser and boomerang. Players nit by a disc disintegrate in a video death dubbed "de-rezzing." With the disc a key element in this electronic story (many of the images, in fact, are generated by computers), Bridges had to become an expert at one of the least technological games in human history—the Frisbee.

Enter flesh-and-blood hero Sam Schatz. As the movie's official "disc coordinator," California Frisbee champ Schatz worked closely with the head stunt consultant to choreograph the fight scenes "like a ballet." Schatz taught cast members how to throw the laser "identity disc" with authority, and even doubled for actors during the more esoteric maneuvers.

Which throws did he count on for the highest de-rezz ratios? "Your basic backhand throw from the side of your body," says Schatz. "And the one where you stick your thumb underneath and arc the disc at an angle. Then there's the wrist-action overhand over-the-shoulder throw: That's for quick-draw action."

Movie jobs for disc-slingers don't come along every day, and we wondered if Schatz's future was secure in case *Tron II* comes along. "If that's what happens, I'm in there," says Schatz, deftly flipping a grin.

-Theodore Fischer

With Mallets and Forethought

What do Algy, Reggie, Chauncy, Skip, and Lycentia have in common? No, they aren't characters in *Brideshead Revisited*. They're members of the Celebrity Croquet Club of Chicago, an oasis of English gentility in the city of the big shoulders.

Actually, the 30 members of the CCC of C aren't English, nor are they celebrities. But they are absolutely tophole chappies—TV producers, ad

agency directors, models, editors, and the like—all of whom enjoy playing croquet and pretending they're like the upper-crust Englishmen who populate the novels of Evelyn Waugh and P.G. Wodehouse. For members, two things are *de rigueur*: to assume such "noms de mallets" as Cecily and Murgatroyd, and to have a jolly good time.

The idea for the club took root last year in a Chicago bar when Algernon Byron Throckmorton III (a "nom de mallet") said to himself, "Dash it all! If only one could combine the joys of croquet and the imbibing of cocktails and at the same time be charming." At the CCC of C, one can.

Wearing their official blue and white shirts bearing a logo of crossed mallets, the members comport themselves with the utmost dignity on one of Chicago's six croquet greens in Lincoln Park. Each Sunday afternoon from May 15 through October 15, the players can be observed sipping cham-

pagne, eating pâté, and exclaiming "well struck, old bean," as they politely fight it out on an American Six Wicket course.

Club President Throckmorton would like to pit the CCC of C against local celebrities to raise money for charity. "We hope to have several events this season," says Algy, "including an Edwardian Croquet Day and a Challenge-the-Chicago-Playboy-Bunniesfor-Charity. Money will also be used to maintain greens, which are now, well, just not up to snuff. Says Throckmorton:

"A rather sticky wicket, what?"

ket, what? —Bruce Bieber



Photo by Walt Disney Productions



At ease: Mike Farrell (right) and friends think Broadway's a sure hit.

M*A*S*H Notes

There's no business like show business. But what if your show goes *out* of business?

Mike Farrell, who plays the mischievous surgeon B. J. in CBS's long-running series *M*A*S*H*, seems to have found an interesting solution: "I'm going into the games business," he says. This surprising announcement, coupled with the news that *M*A*S*H* will be folding its tents for good after the fall TV season, sent us scurrying down to the 4077th Field Hospital.

"The game is called Broadway," says Farrell, unfolding a professional-looking board game amid the olive-

drab stretchers and oxygen bottles of the 20th Century Fox M*A*S*H sound stage. Sort of a Monopoly for theater buffs, it was invented some 25 years ago by a friend of Farrell's, the Broadway actor-turned-writer Ernie Parmentier. "He drew it out freehand on a piece of cardboard," says Farrell, "and it was played at all the Broadway parties he went to."

Instead of buying Baltic Avenue or Park Place, Broadway players invest in shows like *Life with Father*, *Hello*, *Dolly*, and *Man of La Mancha*. Naturally, the player who earns the most money is the winner. As in the real Broadway theater, success in this game is a crap shoot. Rolls of the dice send players "out on the road" and back to Broadway for "opening"

night." And dice-generated "reviews" are crucial.

Farrell is now Parmentier's partner, and in the months following M*A*S*H's closing he'll devote more time to promoting the game. It can be purchased by sending \$24.95 to Box 69700, Los Angeles, California 90069. "Everybody in the business thinks Broadway is wonderful," Farrell says. But it remains to be seen whether it will play in Peoria. —A.M.

Holy Mazes!

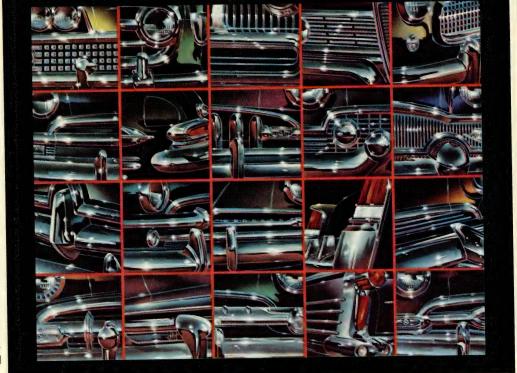
Joseph A. Reif's religion may be orthodox, but his approach to puzzles is pretty unconventional.

The skullcaps worn by Orthodox Jewish men are frequently crocheted with intricate patterns, personal symbols, or the wearer's name. Reif, a lecturer at Bar-Ilan University in Ramat Gan, Israel, brought a little gamesmanship to this folk art: He designed a maze for his skullcap and had a friend crochet it for him. Says Reif, "It has become quite a conversation piece here, and on more than one occasion people sitting behind me in the synagogue have said that they had trouble following the service because they were busy trying to get through the -C.S. maze.'

You Auto Be In Pictures

Shortly after publishing "Fins of the Fifties" (March/April) we received news of yet another quiz on vintage chrome. A Detroit company produced the poster at right as a promotional contest, the object being to identify the classic 50s cars shown. The winner, General Motors engineer Donald Parker, earned a night on the town.

He and a friend get chauffeured in a 50s limo to Jim's Garage in Detroit for cocktails. Then it's on to dinner in Parker's choice of a 1951 Packard or a 1958 Edsel at Doug's Body Shop in Ferndale. A nostalgic joy ride on Woodward Avenue includes a pit stop for a nightcap. Presumably, the lucky couple will continue to celebrate until they run out of gas.



In guessing the year, make, and model of these cars, the contest winner C.S. missed only two. How well can you do? Answer Drawer, page 68

(Continued on page 12)

Keeping the Records Straight

Suddenly your practice pays off: You find the rhythm and clear 50 boards in Qix, or move little Mario to the top of 30 buildings in Donkey Kong, all on a single quarter. While initialing the machine, you see that your score is light-years ahead of anyone else's, and you begin to wonder if you might be holding a national record. How do you find out?

We asked the manufacturers of the 10 most popular quarter-eaters and discovered that only Atari records and rewards high scores on its games. The company keeps a file of recordsetters and sends T-shirts and certificates to those who can verify their accomplishments with news reports or confirmation by the arcade owner. "We care about the players and want

to encourage success," says Margaret Lasecke, an Atari spokesperson. "And our engineers and designers really enjoy hearing about what people are doing on their machines."

Players interested in registering their high scores on Atari coin-operated games (such as Tempest, Space Duel, Centipede, or Asteroids) can write to the company at 790 Sycamore Drive, Milpitas, California 95054, attention Linda Summers.

But what about scores on other companies' games? That's where Walter Day, co-owner of the Twin Galaxies Arcade in Ottumwa, Iowa, can help.

After a Defender tournament at his arcade produced some amazing scores, Day wanted to know if any of them were official records. When he discovered that most manufacturers don't keep or acknowledge such records, Day established the Twin Galaxies National Score Board, a nation-wide computerized listing of high scores on all popular video and pinball games. Like Atari, Day requires supporting evidence in the form of news coverage or certification by the arcade owner before he will register a

Says Day, "People are finding out about us, and we are getting calls and letters every day about new scores and records. Whenever I travel, I visit local arcades to note the high scores. Several manufacturers are beginning to refer inquiries to us as well. Pretty soon our information will be complete and very current."

If you are interested in finding out the high score on a game or registering one of your own, you can write to: Twin Galaxies, 226 East Main Street, Ottumwa, Iowa 52501. Please include a stamped, self-addressed envelope with your request.

—J.A.

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Blaster Masters

As we go to press, the following are the highest scores (confirmed by Day or Atari) on 10 of the most popular coin-operated games.

300,000
111,000
,000 (level 3)
61,350
5,579,350
(4 markers)
2,808,190
4,421,232
828,453
71,720

Prime Time

While millions of schoolchildren are studiously, if reluctantly, learning how to multiply and divide, mathematicians around the world are just as studiously, and a lot more avidly, learning how not to. These scientists are pursuing a formula for determining rapidly whether a large number is a prime; that is, indivisible except by 1 and itself.

Unfortunately, the only way to prove that a number is a prime is to try dividing it by smaller numbers, one by one. This is a laborious task even for small numbers; for very large ones it's like trying to find a needle in a trillion hay-stacks. Proving a 100-digit number to be a prime by this method would require as much time as the age of the

quire as much time as the age of the universe.
Since there's no convenient formula,

every number must be tested individually. But primes become fewer as they go higher—there are 26 primes between 0 and 100 (2, 3, 5, 7, 11, etc.), 21 between 100 and 200, and only four between 10¹² (one trillion) and 40¹² + 100—so the search grows increasingly frustrating.

But now there's fast, fast, fast relief—the computer, you'll be glad to learn, has once again come to the rescue. A program has just been perfected that can prove the primality of a very large number in the time it takes to find a needle in a ball of yarn. Hendrik Lenstra, of the University of Amsterdam in the Netherlands, and Henri Cohen, of the University of Bordeaux in France, recently proved a 97-digit number to be a prime, and they did it in 77 seconds flat.

The method, briefly, is to simplify the computations by using a series of preliminary tests that progressively eliminate many possible divisors. The more such tests a suspected prime passes, the more likely it is to be a true prime. The method has been known for some years, but the final proof still required many thousands of separate tests: only two years ago, it took six hours to test a 60-digit number. More recently, improvements in the computer program have cut the number of tests to a few thousand—no sweat for a computer.

Why do so many brilliant minds spend so much time and effort merely trying to find higher primes in an infinite series? According to Dr. Carl Pomerance of the University of Georgia at Athens, one of the developers of the testing program, "When academics work on problems we find intrinsically interesting, we aren't looking for practical applications. But history shows that they are often found later."





HOUSAND WORDS. ONE SIP IS WORTH A

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every month. You may evén win a fun prize.

From now through December, 1982 there will be a "Creamery" game in each issue of Games magazine. There will be winners for every game.

TO ENTER THIS MONTH'S GAME: The 20 underlined words and phrases in the text below are hidden in "The Creamery" truck. Circle all the hidden words and phrases and mail your name, address, age and T-shirt size (please print) along with your completed puzzle or facsimile to: CREAMERY CONTEST, P.O. Box 3016, Westbury, N.Y. 11591. Entries must be received by August 2, 1982. Enter as many times as you wish but each entry must be mailed in a separate envelope. Prize winners will be determined in a random drawing among correct entries by independent judges whose decision is final. No prize substitutions. Winners will be notified by mail. "The Creamery" Contest is open to all residents of the U.S. who are of legal drinking age in the states of their residence. Void where prohibited or restricted by law. Employees and their families of Fleischmann Distilling Company, affiliates and agencies are not eligible. For a list of major winners, send a stamped, selfaddressed envelope to: CREAMERY CONTEST WINNERS, P.O. Box 3082, Westbury, N.Y. 11591.

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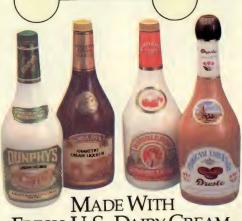
The intriguing taste of Cara Mia Amaretto Cream Liqueur captures the romance of Italy. The richness of Droste Chocolate Cream Liqueur is a blend of the best known Dutch chocolate and fresh U.S. dairy cream. The lusciousness of Wimbledon Strawberries and Cream Liqueur gives you the international taste enjoyed at the Wimbledon tennis matches. And the tantalizing Dunphy's Cream blends fine Irish spirits in a taste worth asking for. All made with fresh U.S. dairy cream. All 34 proof. All very fresh and creamy. Look for "The Creamery display at your local store and ask for your favorites.

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A refrigerator unit for a home bar to chill your Creamery products.

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100-3rd PRIZES "I got Creamed" T-shirts.



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Three Vacations by Phil Wiswell

Mr. English, Mr. French, and Mr. Lapp all went on vacation recently, one to England, one to France, and one to Lapland. If only one of the following four statements is true, who went where?

- 1. Mr. Lapp went to England.
- 2. Mr. Lapp did not go to France.
- 3. Mr. English did not go to France.
- 4. Mr. English did not go to Lapland.

Will the Real John Smith Stand Up? by Eileen Kent

My old friend John Smith, in his continuing saga of the hazards and hassles of being blessed with that particular name, told me this story of confused identities.

While waiting in Chicago's O'Hare Airport for a plane to Washington, he responded to a page for John Smith. To his surprise, four other men named John Smith also showed up at the ticket counter, each headed for a different city. Each of the five men had a different middle initial (one was John H.), a different occupation (one was an editor), and a different purpose for traveling (one was going to a chess tournament). From the clues below, can you match each John Smith with his occupation, his destination, and the purpose of his trip, and also tell the order of their departures?

- 1. The five men arrived at the ticket counter in the following order: the actor, John S., the conventioneer, the man bound for Paris, and the man going to a wedding.
- 2. John M.'s flight, which was not the one to Los Angeles, was scheduled to leave after both the surgeon's plane and the flight to New York, but before both John A.'s plane and the flight of the man going to the wedding.
- 3. The man headed for a job interview, the conventioneer, and John F. were all at the ticket counter when the steelworker arrived; the accountant had already left.

- 4. The last flight was to Houston; the first flight was to New York, which was not the destination of the vacationer.
- 5. The third man to arrive at the ticket counter caught the third flight out. None of the other arrivals at the counter coincided with flight departures in this manner.

July 4 Homecoming by R.H. Drake ★★

The Clarks were looking forward to July 4, when their six sons, and their sons' wives and children, were coming to their Utah home for a holiday celebration organized by their son Ron. Everyone was due to arrive July 3. Each couple has one, two, or three children. From the following clues, can you match the sons with their wives, determine how many children each couple has, deduce their time of arrival, and figure out where each family lives?

- 1. One couple crossed no state or country borders in getting to the homecoming.
- 2. The couples arrived July 3 at 8 A.M., 10 A.M., noon, 2 P.M., 3 P.M., and 5 P.M.
- 3. The couples from Germany and Japan have the same number of children.
- 4. George has only one child, a boy, Eileen has only two girls; and Carol has only one girl.
- 5. The son from Texas arrived at 10 A.M. 6. Pat, who hails from Wyoming, has three children and did not arrive either first or last.
- 7. Frank flew in from Germany and arrived after noon, two hours after his brother from Japan.
- 8. Bert and Bob don't have the same number of children. The son from Texas has one less child than the son from Wyoming. The son from Arizona has one more child than Frank.
- 9. Wendy arrived after Jill, who arrived after Linda. But Linda arrived before Eileen, who arrived before noon.
- 10. Keith drove all night and arrived before 10 A.M. with his three hungry children.

11. Bert packed his wife and two children in the car that morning and arrived three hours after Frank.

On the Road to Canterbury by J. Mark Thompson ★★

Five pilgrims met by chance at an inn on their way to the cathedral at Canterbury. They were a Franklin, a Knight, a Miller, a Clerk, and a Summoner, and their names were Thomas, Derek, Lewis, Piers, and Hugh (not necessarily in that order). They agreed to travel together and decided that each of them would tell a story along the way. The five drew straws to determine the order in which they would speak, and one by one they related the tales of Orlando, Narcissus, Robin Hood, Esther, and St. George (not necessarily in that order).

Using the information below, can you deduce the profession of each pilgrim, which story each of them told, and in what order they spoke?

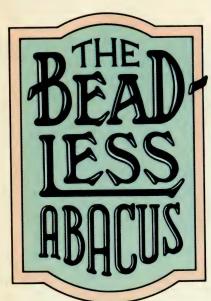
- 1. Thomas and the Summoner agreed privately that the Clerk's tale was silly, and each resolved to do better when his turn came.
- 2. While one pilgrim was telling the tale of Orlando, Hugh began to quarrel with the second storyteller (who had just finished). Lewis and the Knight separated the two men while the teller of the tale of Orlando waited impatiently to finish.
- 3. Lewis and Piers found the Summoner's tale lacking in interest.
- 4. The Franklin laughed so hard at the tale of Robin Hood that he fell into a roadside ditch. Thomas helped him up as the storyteller continued. The Knight, who was usually helpful in such emergencies, was preoccupied with the story he was planning to tell.
- 5. The tale of Esther, which immediately followed the tale of Narcissus, was very long, lulled by the steady plodding of his horse, Derek dozed off during the telling. The Knight woke him, since Derek's tale came next. Fortunately, the storyteller noticed none of this.

Answer Drawer, page 68



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17



You may have heard claims that an abacus, used properly, can enable you to perform lengthy arithmetic computations as quickly as with a calculator. With the "beadless abacus" shown here, you can impress your friends without resorting to a computing device of any kind.

Show a friend this diagram, in which each hexagon-shaped cell contains an arithmetic operation. Now, perform the following feats:

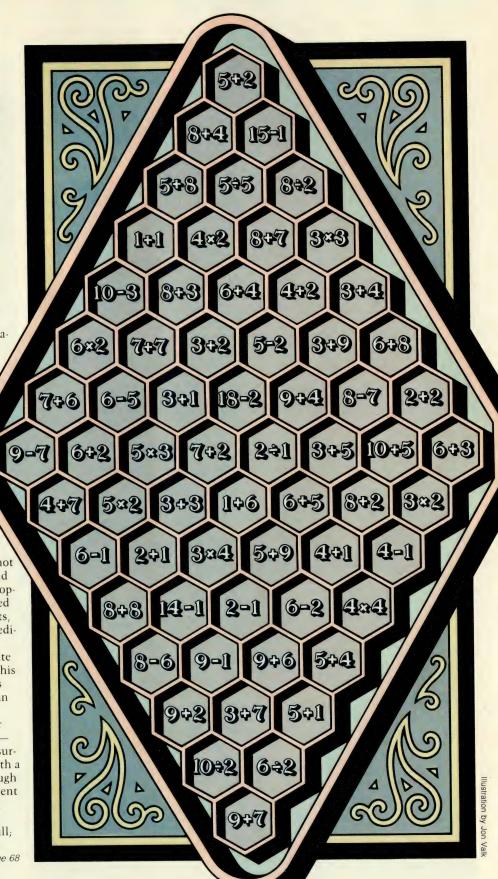
1. Ask your friend to designate, by laying a matchstick across them, any *three* touching cells that lie in a straight line. (Each cell must touch the next along an entire edge, not just at a corner point.) Tell your friend in advance that you will perform the operations in each of the three designated cells and add together the three results, giving the total out loud almost immediately after the matchstick is placed.

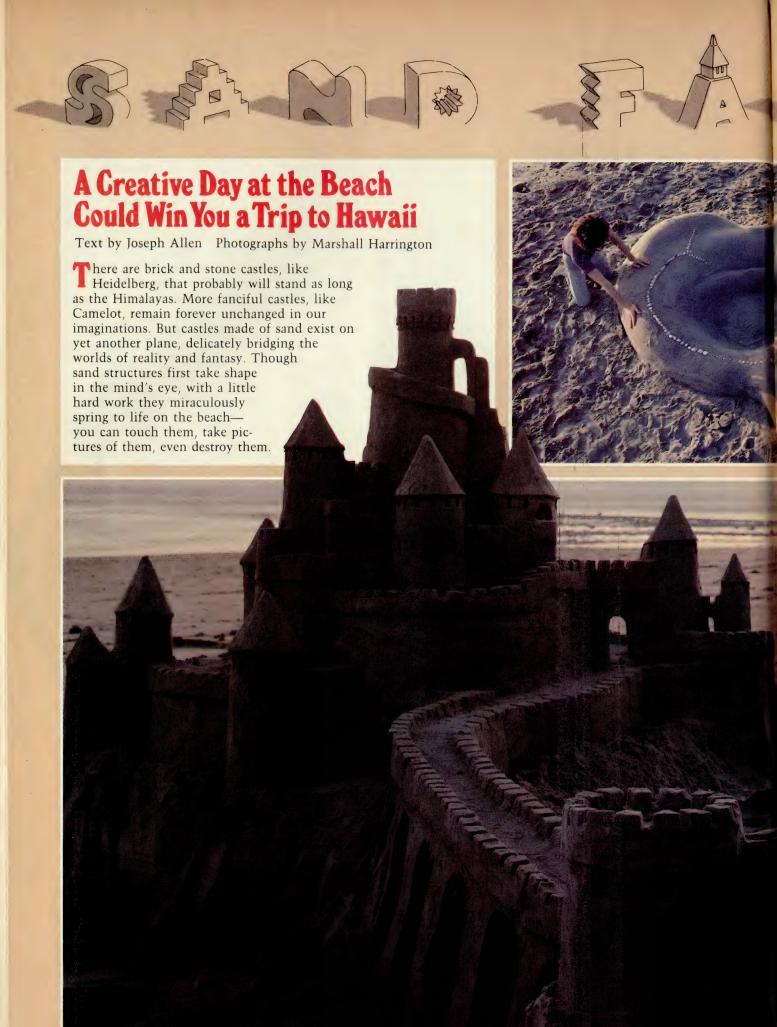
2. Next, ask your friend to designate any *four* touching cells in any line. This time, you will perform the operations and add up the results even faster than in the first trick.

3. For your grand finale, have your friend choose a cluster of *seven* cells—any cell not on an edge, plus the six surrounding cells—by covering them with a shot glass. You will then glance through the shot glass, look away, and a moment later give the sum of the results of all seven operations.

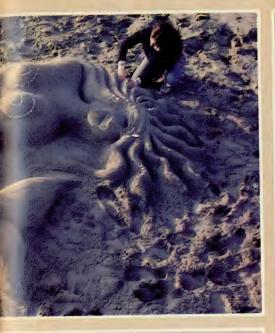
Ponder these feats awhile if you will; but to learn how to do them, turn to

Answer Drawer, page 68

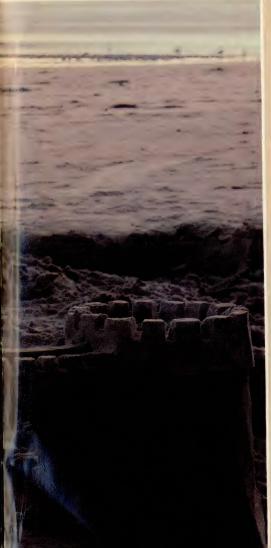




可能 原 南南







As the pictures on these pages demonstrate, sand castlers devote much time to their ephemeral art. The enthusiasm that inspires such spectacular efforts has generated a number of contests across the country. And it's inspired Games to hold a summerlong sand fantasy contest (see box, page 21). Clearly, to hold your own with these sand masters takes skill and organization, but it's within anyone's reach. The most important prerequisite is imagination. You'll soon find that with a plan, some tools, and a little practice, you can create the most grandiose or whimsical structure. But remember that the glory is fleeting, though a photograph helps preserve the moment. Waves will attack your

The vision of Camelot at left took seven sand castlers two days to realize; be sure to work above the tide line if your project promises to last more than a day. The sand seductress, above left, measured 12 feet and took three people 5½ hours to build. The sandsicle, above, took one person four hours, and was carved with a sixinch putty knife.

castle more mercilessly than any barbarian horde. If you're striving for permanence, try bronze.

But if you want the more modest satisfactions sand castling offers—the beach, sun, and sea, the pleasure of the task, and the chance to see your fantasy realized—then start building. And may your towers never crack, your sculptures stand tall, and the tide always be low.

Joseph Allen and Marshall Harrington collaborated on Sandcastles (Doubleday).

The ABCs of Sand Castling

One of the easiest techniques in sand art is molding. With a paper cup, gelatin mold, or bucket, you can raise medieval towers by the shore, create citadels, castles, churches. It's simple: Just fill a mold whose mouth is wider than its base with sand wet enough to almost drip through your fingers. Be sure the sand contains no bits of seaweed or shells. Pack the sand with your fist and quickly turn the mold over, with a whack, onto a flat surface. Then pick up the container without twisting it and voilà!-your own kingdom for a day.

Dripping requires nothing more than patience. With this technique, little dribs and drabs of runny sand form fantastic shapes. To begin, pack a bucket about midway with sand, then fill it to the brim with water. Grab each handful from the bottom of the bucket—the mixture should be the consistency of cake batter—and let it leak out of your loosely clenched fist. Build slowly or the structure will collapse. The results are worth the wait: magical spires, strange filaments, and science-fiction worlds. Drip a mane on

It took 40 people and a bulldozer four days to re-create 17th-century Heidelberg, below. The sand city was the size of a football field.

a lion or a "snowy" bough on a summer Christmas tree.

Building a structure so impressive that even blasé lifeguards take notice requires the method known as **sculpting**. Michelangelo practiced it when he carved the *Pietà* out of marble, and the results in sand are almost as remarkable.

To create a sculpted showstopper, start with a big mold: Try a plastic trash can with the bottom cut out. Grade a place on the beach until it's fairly flat and stand the mold on it. Now begin filling the mold with sand. Every third bucketful of sand, add a bucket of water to compact the sand and eliminate any structure-weakening air bubbles.

Next find someone who's willing to get his feet dirty and have him climb into the mold and stomp on the sand as you throw it in. Be sure to pack down the edges. When the sand level nears the top, lift off the mold. If it sticks, pour through a bit more water. When the mold is removed, you're left with a firm block of sand to work on.

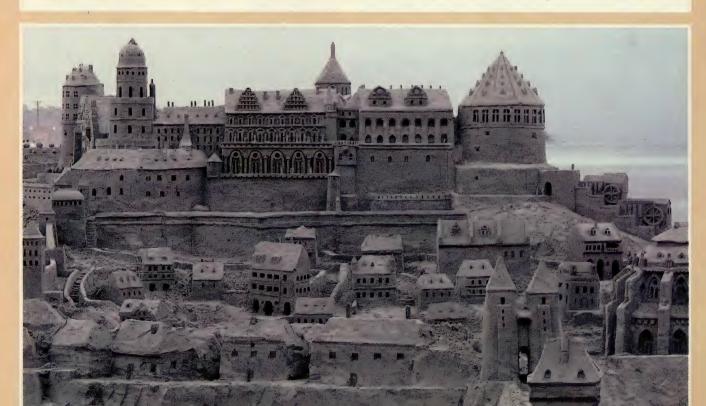
Though carving sand is a lot easier than chiseling marble, you still need the right tools. Raid the garage and kitchen for flat trowels, smooth lengths of board for grading, broadbladed knives for carving, melon scoops for making windows, pierced

The Balkan castle at right, top, shows the classic approach, while the robot below it, adorned with found objects, definitely does not. spoons, and cookie presses. Use them to shape your creation in two stages: rough-cutting and fine-detailing. The principle here is that there's no point sculpting finely graded causeways if the arches beneath them are going to cave in, so rough out the approximate shape before adding the painstaking finery. Another way to avoid disaster is to sculpt the tops of buildings before you start on the lower levels.

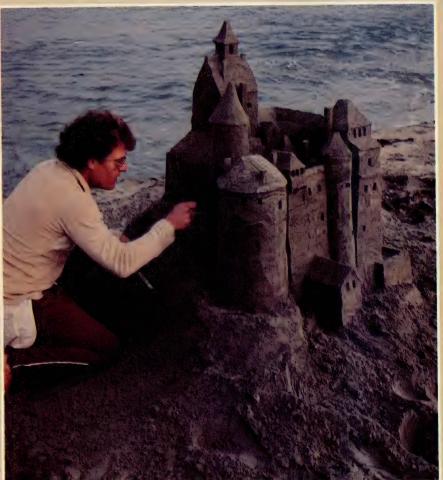
Not all sand sculptures need to be compacted with the aid of a mold. Low-slung ones, such as our mermaid, who is seen on page 19, began as mounds of sand piled into the appropriate shapes and saturated with water. If you're working without a mold, form a water-retaining ridge along the perimeter of the sand you've piled, making a kind of dam so the water won't run off when you soak the mound. When saturated it will provide a firm base on which to work.

After carving the sculpture, embellish it with ornaments as elaborate as specially cut boards for ice cream sticks, or as simple as the beer bottle eyes on the robot, below right, or the shells and smooth stones on the mermaid. And along with sand, water, and ornaments, don't forget to add more than a bucket's worth of whimsy.

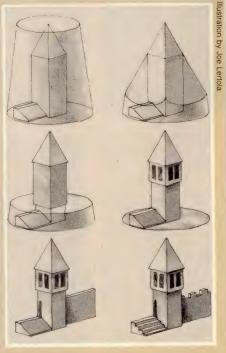
The diagrams at far right show how a tower emerges from a pail of sand. Sculpt with upward strokes to avoid undue pressure on the base.



AND COMPERSION









Unly one thing is nicer than sand castling at your local beach—and that's sand castling in Hawaii. Our summerlong contest offers that chance in two categories: sand architecture and sand sculpture.

The architecture category includes any building, real or imagined, from a church to a castle to a skyscraper. Vaulting height, free-standing, gravity-defying towers with fine detailing, seethrough arches, curving stairways, and overhanging eaves are qualities that are sure to impress our judges.

The second category includes sculptures of all kinds. Easily recognized subject matter executed with skill and wit are favored.

The grand prize for each category is a trip for two to Hawaii, complete with round-trip air fare on American Airlines and a resort apartment for one week at Makaha Valley Plantation on Oahu, courtesy of American International Vacations. (Prizes are subject to certain travel restrictions and availability.)

How to Enter Send a picture or pictures of your sand sculpture or architectural fantasy taken from as many angles as you wish. The photos can be prints, slides, or transparencies, in black and white or color; they must be clearly labeled with your name and address. Photos become the property of Games and cannot be returned. Sculptures built as entries in any other organized contest are not eligible. A note: Sand is everywhere. If you don't live near a beach, we hope you'll find some sand by a lake, stream, desert, or local sandbox and send in an entry.

Send your entry to Sand Fantasies, Games Magazine, 515 Madison Avenue, New York, N.Y. 10022. Entries must be received by September 30, 1982.



Time-Sequence Puzzle Photographed by Ken Robbins

















It was a lazy, hazy summer day. We captured the comings and goings of some friends on the beach, and when the pictures came back, we lazily, hazily mixed them up. Can you put them in the proper chronological order?

Answer Drawer, page 68













GRAND TOUR

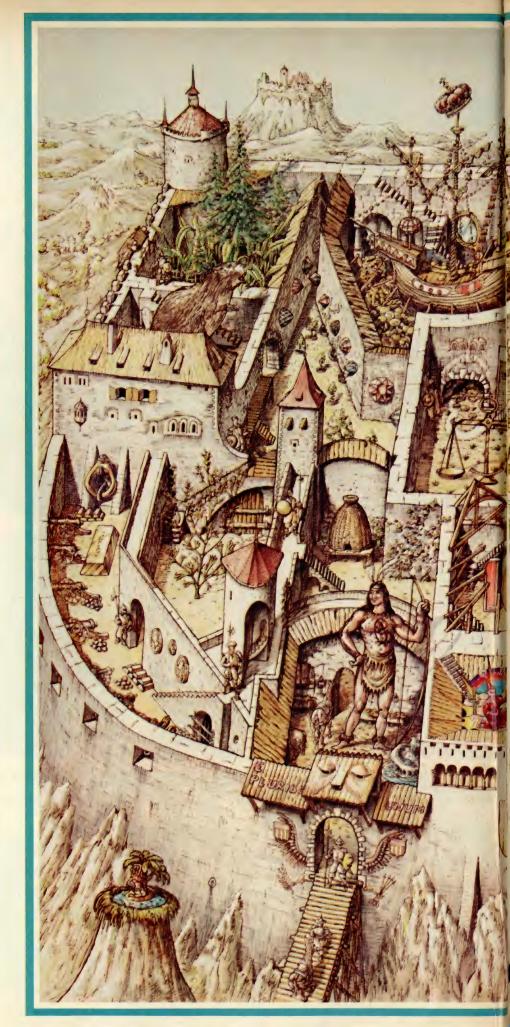
A Maze by Cudor Banus

You're about to journey through a grandiose and convoluted fortress. And if there's something naggingly familiar about the outline of its ramparts and the images within its walls, that's because your trip takes you through a maze of the good old USA.

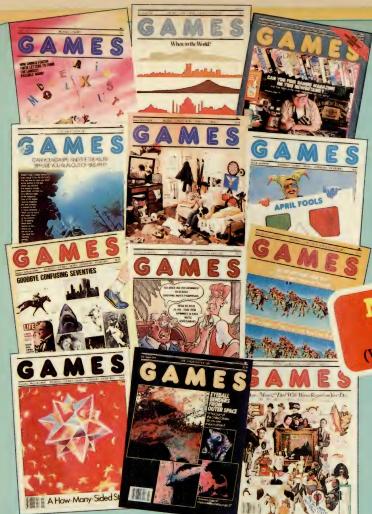
Beginning at the bridge in the lower left, trace a path through the maze to the American flag flying high above the capital. You may pass through open doorways, go up and down stairs, and even travel along the tops of walls and roofs if you can reach them by stairs or ladders; but you may not go through doors that are shut, scale a wall, jump off a cliff, or perform any other superhuman feat.

The path will lead you through or along the border of all 48 contiguous states. As you pass each state, try to identify the image inside: it represents either an official or unofficial state nickname.

Have a good trip.







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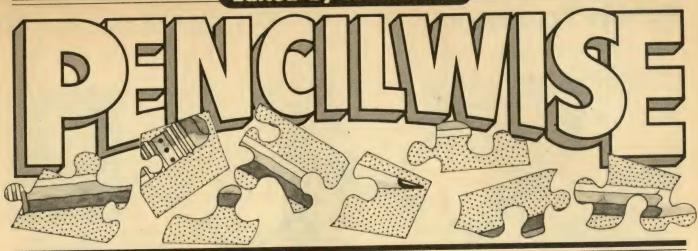
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Edited by Will Shortz



Illustrations by Judy Sutton

The Spiral **

by A. Braine

One good turn deserves another, we say. And another, and another, and another. . . This puzzle will have you turning and returning in two directions. The spiral's Inward clues yield a sequence of words to be entered counterclockwise in the spaces from 1 to 100. The Outward clues yield a different set of words to be entered clockwise from 100 back to 1. Fill in the answers, one letter per space, according to the numbers beside the clues. Keep track of which way you're proceeding, and have many happy returns.

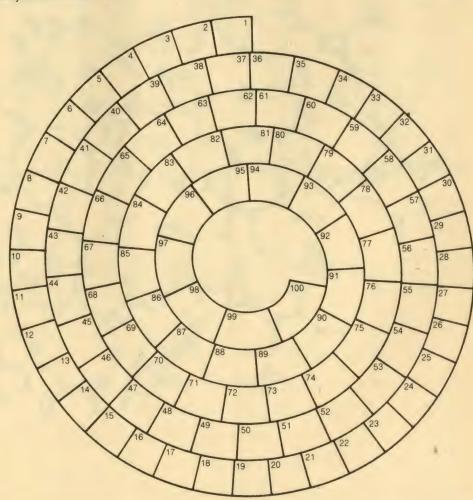
Answer Drawer, page 70

INWARD

- 1-4 Grain storage building
- 5-8 Left, at sea
- 9-15 Trade ban
- 16-20 Confederate Gen. Braxton ___
- 21-29 Stingy
- 30-35 Nightclub
- 36-42 Salk found one for polio
- __ Burgess 43-48 Humorist ____
- 49-53 Relative of the viola
- 54-58 Largest asteroid
- 59-65 Capital of Sicily
- 66-72 Tangled, as hair or traffic
- 73-78 Seafood item
- __ Crackers 79-84 Marx Brothers' ___
- 85-92 Downgrade the importance of
- 93-96 Songbird
- 97-100 Bites

OUTWARD

- 100-94 Children's game equipment
- 93-89 Cry of glee
- 88-83 Big to-do
- 82-75 Turrets on a mosque
- 74-70 Alpine communication
- 69-64 Kidnapper's demand
- 63-57 Setback during convalescence
- 56-48 Think back
- 47-39 Exhibiting charisma on TV
- 38-33 Leap playfully 32-28 Female prophet
- **27-20** Towing
- 19-15 Actress Greta
- 14-11 Seize suddenly
- 10-1 Superman's hometown

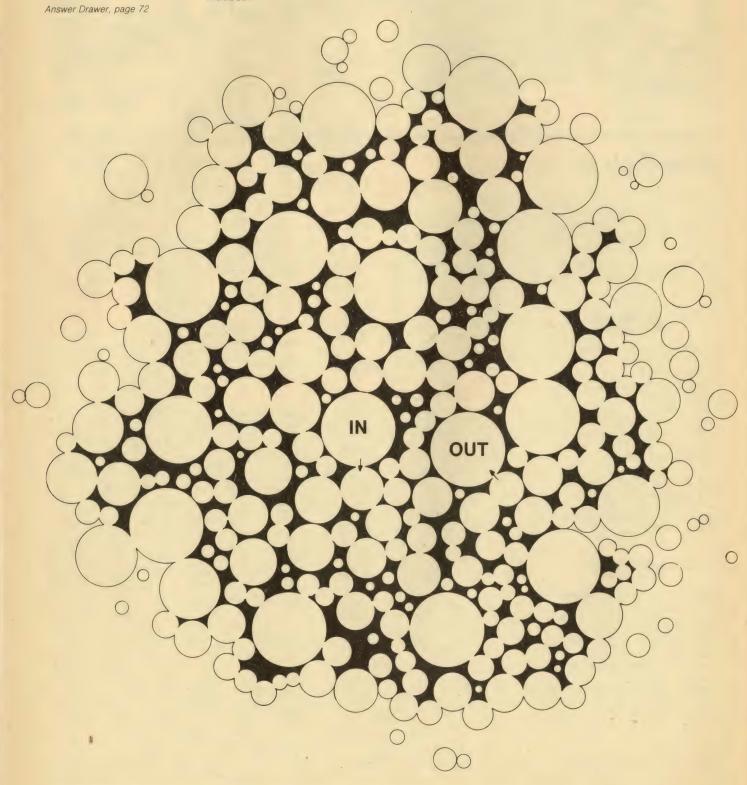


Bubble Trubble *

A Maze by Harold Adams

Double, double toil and trouble; Fire burn, and cauldron bubble.

Macbeth



Breaking Away *

by William Lutwiniak

Answer Drawer, page 71



Kendra St. Aubin, a reference librarian at Wheaton College, won the 3rd New England Crossword Puzzle Championship in Dartmouth, Massachusetts, last April. Kendra savs she's been solving puzzles for about 10 years. She zipped through this one in 7 minutes flat, in case you'd like to compare skills.

37 Grammatical

1	In	(trapped):
	2 wds.	

- 5 Leather band 10 FDR's dog
- 14 Tailless cat
- 15 "____ there's a will . . . " 16 ___ uproar:
- 2 wds. 17 Haley of Roots
- 18 Put upright
- 19 Transmit
- 20 Interstate, e.g.: 2 wds.
- 23 Brainchildren
- 24 "Listening-in" device
- 25 Motion of a dog's 62 Little _ tail
- 28 Finis
- 29 Mound
- 33 Ayatollahs
- "Goose-egg"
- 36 Alda or Arkin

- no-no: 2 wds.
- 41 Ardor
- 42 Little tyke
- 43 Live it up
- 44 Dwelt
- 46 ____ Juana 48 Superlative suffix
- 49 Damage
- 50 Rummages (for)
- 52 Diners' request: 2 wds.
- 58 Off-base, militarily speaking
- 59 Kid's threewheeler
- 60 Leader
- (Dickens heroine) 11 Over again
- 64 Office note
- 65 Lady Jane or Zane 13 Singer Williams
- 66 Steeple
- 67 Ready for business

DOWN

- 2 Like some lies,
- 3 "Dedicated to
- 4 36, as a chapter
- 5 Liv Ullmann's
- 6 Spool material
- 8 Gateway
- 9 Request, with
- signatures
- 2 wds.
- 63 Source of down 12 Cantrell or

 - 2 wds.

- 1 I ___ Camera:
- tires, and eagles
- the ____ Love": 2 wds.
- heading
- home
- 7 Grass stalks
- 10 Seafood special:
- Turner
- 21 That is: Lat.,
- 22 Guy's date
- 25 Smarter
- 26 Quite sufficient 27 Festive parties
- 29 ___ polloi
- 30 Martini garnish 31 Neanderthal homes
- 32 Bent the knees
- 34 At the least
- 35 Frequently
- 38 Repeats
- 39 Show assent
- 40 Furious 45 Patriotic women's
- grp.
 46 "Little Tommy
- 47 Belong naturally
- 50 Swiss Alps girl
- 51 Joe ___ (jerk) 52 Joined the chorus
- 53 Pitcher
- 54 Lech Walesa, e.g.
- 55 Stumble
- 56 Hang onto
- 57 Identical
- 61 Singer Ho

Heads Up! *

by Gene Traub

Mind you, you'll have to use your bean, and perhaps some skullduggery, to cap this brain-tickling quiz. The answer to each clue is a word, name, or phrase that contains the word

HEAD. For example, a "feathered war bonnet" would be a HEAD-DRESS, and "reach a crisis" would be COME TO A HEAD. Put on Answer Drawer, page 70

- 1. Coin toss choice _____ 2. Indian relic ______ 3. Sleepy Hollow spirit _____
- 4. Control center _____
- 5. Menacing storm cloud _____
- 7. Magazine's staff listing ______ 14. Madly, as in love ____

- your thinking cap and try these 12.
- 8. Poisonous snake _____
- 9. Famous Hawaiian promontory _____ 10. Back-to-back baseball games _____
- 11. Proverb on joint problem-solving _____
- 12. Advantage in a race_____
- 6. Front bowling target ______ 13. Archie's pal, in the comics_____

Video Play *

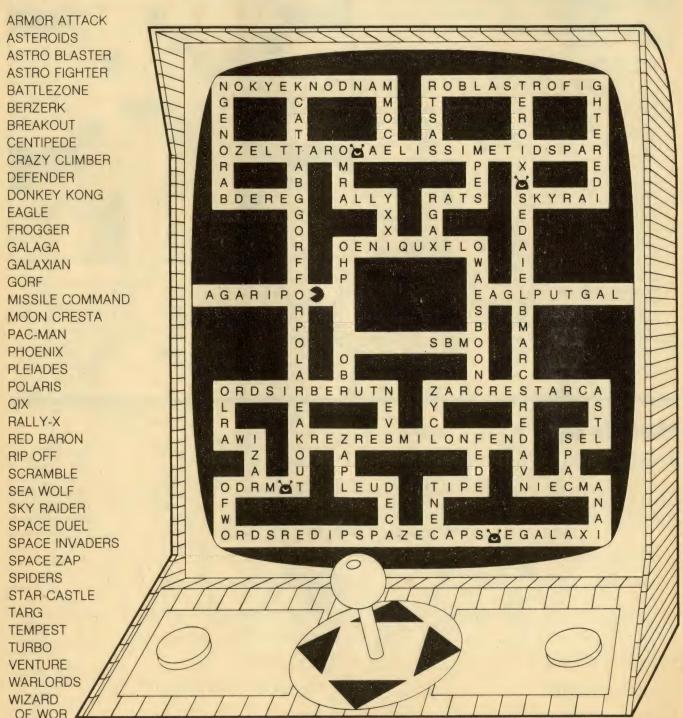
An Arcade Word Search

by Keith Lewis

We've spent so much time staring at our Pac-Man screen, we're beginning to see blue monsters in our dreams. We've even begun to imagine that all those little dots are letters spelling out the names of other video arcade games. In the Pac-Man's paths below there are 40 of them, reading up, down,

left, right, or around corners—just as Pac-Man himself moves. None, however, turns back on itself as Pac-Man does. Your challenge: to find all 40 games before Pac-Man eats the remaining letters. And you don't need a quarter to play.

Answer Drawer, page 70



Anyone for Tennis? **

by Lois Sidway

Answer Drawer, page 71

about what to give your friends? Give

Philip Cohen, a computer consult-

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Home entertainer

Brains rating

World body

4	5	6	7	8		9	10	11	12
15						16			
					19				
				21					+
		Bar	23						politicality
		26				N	27	28	29
	31				l e	32			
34					35				
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				41					
		1	43				1.6		
	1	47					48	49	50
	52								
54						55			
57		-	-	1			58	1.	

- 32 Lee Majors TV role
- 34 The Eastern Hemisphere: 2 wds.
- **35** Rated "X"
- 40 Topnotch 41 Kitchen
- gadgets
 42 Cuban
 first name
- 43 Diners' cards

- 44 Rhyme scheme of "The Purple Cow"
- 45 "Whatever ____ wants . . . "
- 46 Forehead
- 47 Coin to "stop" on
- 48 Sailing
 49 Lascivious
- 50 Transatlantic iets
- 52 Neptune's Celtic counterpart

e" and the letters __ H __ N E, you would fill in P.O. to complete the word PHONE. See if you lowing 12 Letter Carriers posthaste.

Answer Drawer, page 68

M __ Record E L Morning

Trucker's "ears"

Bush, now

Afterthought

Kind of bracelet

10. _ A _ OR

11. ___EAL

12. _U_HY

GAMES July/August 1982

4. S_O_E

5. P__UE

6. CH__K

Video Play *

An Arcade Word Search

by Keith Lewis

We've spent so much time staring at our P we're beginning to see blue monsters in our even begun to imagine that all those little dots ing out the names of other video arcade gar Man's paths below there are 40 of them, rea

ARMOR ATTACK **ASTEROIDS**

ASTRO BLASTER ASTRO FIGHTER

BATTLEZONE

BERZERK

BREAKOUT

CENTIPEDE

CRAZY CLIMBER

DEFENDER

DONKEY KONG

EAGLE

FROGGER

GALAGA

GALAXIAN

GORF

MISSILE COMMAND

MOON CRESTA

PAC-MAN

PHOENIX

PLEIADES

POLARIS

QIX

RALLY-X

RED BARON

RIP OFF

SCRAMBLE

SEA WOLF

SKY RAIDER

SPACE DUEL

SPACE INVADERS

SPACE ZAP

SPIDERS

STAR CASTLE

TARG

TEMPEST

TURBO

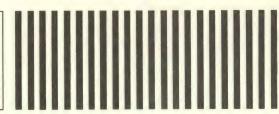
VENTURE

WARLORDS

WIZARD

OF WOR

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July/August 1982 GAMES

Anyone for Tennis? **

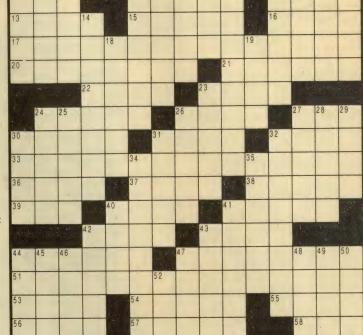
by Lois Sidway

Answer Drawer, page 71



Philip Cohen, a computer consultant from Aliquippa, Pennsylvania, won the 1981 Annual American Crossword Puzzle Tournament in Stamford, Connecticut. He's secretary of the National Puzzlers' League and a big fan of cryptic crosswords, particularly the fiendish ones in Britain's Listener magazine, which don't come hard enough for

him. He took time out-but not much-to test-solve this puzzle for Games in a swift 4 minutes 54 seconds.



ACROSS

- 1 Bankroll
- 4 Gives, perhaps unwillingly
- Animal lovers'
- 13 "Wellaway!"
- 15 Pancho's pal
- 16 Preside at tea 17 McEnroe's misdemeanors?: 3 wds.
- 20 Hollywood hopefuls
- 21 Play the flute
- 22 Without purpose
- Broadway brilliance?
- 24 Waits
- 26 Hit on the head
- 27 Past
- 30 Cobbler's needs
- 31 Bob Hope's -Russia \$1,200: 2 wds.
- 32 Pack

- 33 Ace?: 4 wds.
- 36 Biol. subj
- 37 King of the Globe Theatre
- 38 Posts on the corporate ladder
- 39 Carrot-top's nickname
- 40 Arabian gulf
- 41 Receiver
- 42 Barnyard bird
- 43 DiMaggio had a hand in it
- 44 Abnormally white
- 47 0.2, 3.9, et al.
- 51 Disputed calls?: 2 wds.
- 53 Medicinal
- houseplant 54 Monkeylike
- animal 55 Salamander
- 56 Cry like a baby
- 57 Frock
- 58 TV revenue source

DOWN

- 1 Army gals of yore
- 2 "Thanks __!": 2 wds.
- 3 Bill, a/k/a José Jiménez 4 Bedouin
- transportation 5 Unoccupied
- 6 Dahs' partners
- 7 Cause of a big head
- 8 Detergent additive
- 9 Dish's co-eloper
- 10 Sulk
- 11 Coiffeur's task
- 12 Laugh-In's Johnson
- 14 Shrill
- 18 First-born
- 19 Emulate Julia Child
- 23 "It's . never!": 2 wds.
- 24 Daniel or Debby
- 25 Homeric masterwork
- 26 Doyle's middle name
- 27 Carry _ (sing on key): 2 wds.
- 28 Stuff oneself
- 29 Has
- 30 Practice pugilism
- 31 "____ a Song Comin' On" 2 wds.
- 32 Lee Majors TV role
- 34 The Eastern Hemisphere: 2 wds.
- 35 Rated "X"
- 40 Topnotch
- 41 Kitchen gadgets
- 42 Cuban first name
- 43 Diners' cards

- 44 Rhyme scheme of "The Purple Cow"
- 45 "Whatever ___ wants
- 46 Forehead
- 47 Coin to "stop" on
- 48 Sailing 49 Lascivious
- 50 Transatlantic
- 52 Neptune's Celtic counterpart

Letter Carriers *

by Will Shortz

Think of a two-letter abbreviation suggested by each clue below and enter it, without changing the letter order, in the two appropriate blanks. You'll end up with a common five-letter word (unrelated to the clue). For example, given the clue "Letter carrier's base" and the letters __ H __ N E, you would fill in the abbreviation P.O. to complete the word PHONE. See if you can finish the following 12 Letter Carriers posthaste.

- 3. _ IMI__
- 4. S_O_E
- 5. P__UE 6. CH__K
- Prosecutor

- World body

Answer Drawer, page 68

- 1. CE__R
- 2. _ AR_ H Show host
 - Six-pointer
 - Home entertainer
 - Brains rating

- 7. C_UM_ Record 8. C___EL Morning
- 9. S_RU_ Trucker's "ears"
- 10. _A_OR Bush, now
- 11. ___EAL Kind of bracelet 12. _U_HY Afterthought

Noah's Ark*

by Noah Webster

It's a little-known fact that while the world's more serious animals were making their way to Noah's Ark to weather the Great Flood, another group of rather more fanciful beasts found shelter aboard another ark, the one shown here. The names of these 12 creatures are common English words that playfully describe these very special animals. For example, the large, dapper cat (#11) is a dandelion. Can you match the other animals with their names?

Answer Drawer, page 70

mals with their names?

Answer I

Bumble

Caftan

Cardiac

Conceal

Il Dandelion

Melancholy

Euphonious

Hypocritic

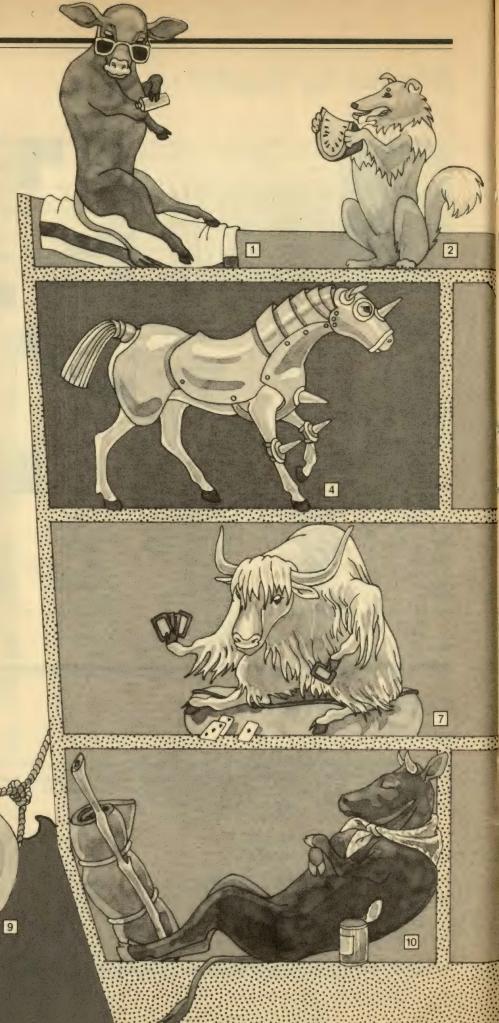
Investigator

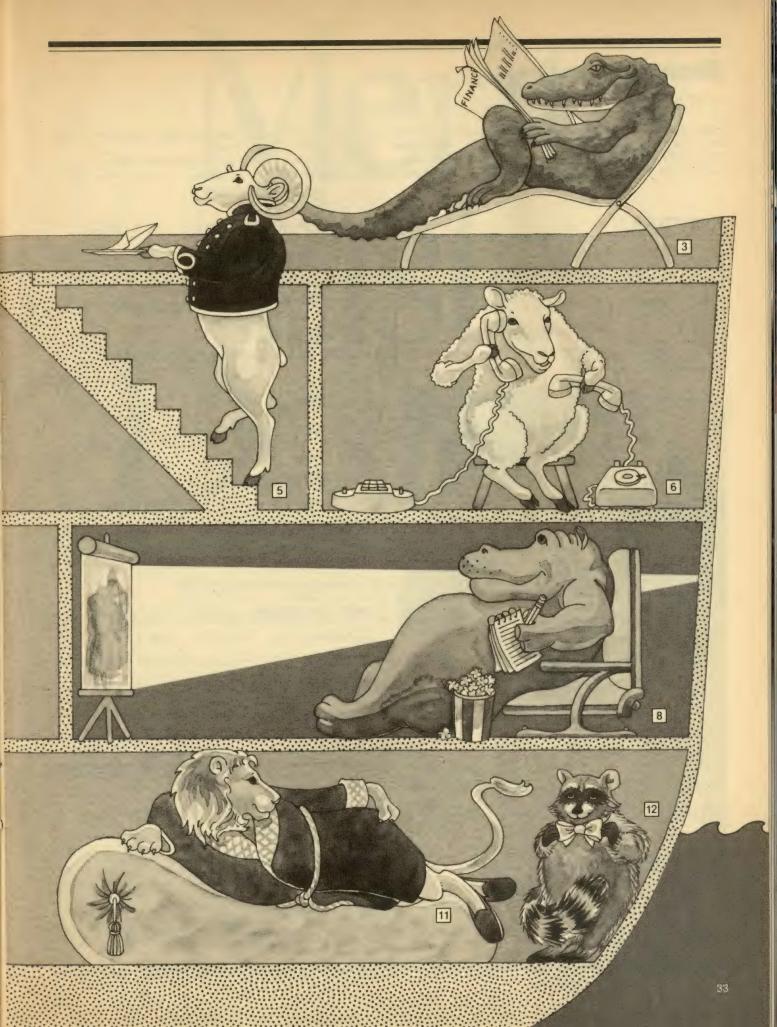
Nightmare

Rampage

Tycoon

63212





Dszquphsbnt! **

by Dick Crawford

Below are seven messages—pithy sayings, fascinating facts, and a cartoon gag—which have been translated into simple code alphabets. Letter substitutions remain constant throughout any one cipher, but change from one cipher to the next,

and the level of difficulty increases as you progress. An asterisk (*) indicates a proper noun.

Clues are given at the bottom of the page to provide assistance if you need it.

Answer Drawer, page 70

1. CRYPTOON

OYBZH BJQ AYX EHMF OH.

V DYXU IJOHUEVXR UEYU

DVMM AYQIH ACYZRCYII UJ

LVH YI IMJDMB YXL

FYVXTQMMB YI FJIIVZMH.



2. THE WONDERS OF PROGRESS LVC'W
LW NQDBW? YBHRD HFX FCMD
TDQD B VYBOO MFN LC WGD
YBMGLCD, RXW CFT HFX MBC
WBPD JQLUD LC RDLCN B PDH
ULNLW LC WGD MFYJXWDQ.

3. INVESTMENT HINT AB CAS XOFYYX
ALX EGOOJBXX CLOA DFNTX
EGU PSO DB ZBOOLPZ GPU
LPOBJBXO, DFO AB CLRR
GRCGUX AGKB XSEBOALPZ OS
YGRR DGNT SP.

4. SENSE OF HUMOR UXSL OLXOPL
TLI IRKLL PWCTRU HKXS W
VXML: GRLJ IRLN RLWK EI, GRLJ
NXC LDOPWEJ EI IX IRLS, WJA
GRLJ EI HEJWPPN UXWMU EJ.

5. FLIGHT PLAN SPFHWY MPOFYB
PS DS PZZHWY IDEE: HF HO
LDXB FP OPDX IHFL YDAEYO
ILYS QPK LDGY FP IPXR IHFL
FKXRYQO.

6. LAW OF THE ROAD YSR CJYWMJE
KQHQMK QAHQ QXY XJYODK RY
OYQ PHLM H JNDAQ, EVQ NO
QJHUUNB QAJMM JNDAQK PHLM
H SMUQ. JNDAQ?

7. NOT SO UNUSUAL ZPG *UGTJINM
*ZTOMKSFG TGMFFD PMX
KQ JQKQVQFD QK XZTMKSG
NOXMVVGMTMKAGX. ZPGD AMK
PMVVGK MZ MKD ZOJG MTQIKN
JD PQIXG.

CLUES

Cipher 1: The eighth word is SOMETHING.

Cipher 2: The ciphertext LW and LC represent IT and IN respectively.

Cipher 3: Cipher X, found here ending several words, represents plaintext S.

Cipher 4: The word WJA precedes the third of three phrases with parallel structures. What word is it likely to be?

Cipher 5: The two-letter words PS and DS are a preposition and an article

Cipher 6: The one-letter word is A. What common four-letter word is QAHQ likely to be?

Cipher 7: Note the two-letter words KQ and QK. What common pair must these be?

Overwhelming majority of MERIT smokers report taste bonus at low tar.

That's the result of the latest wave of research with smokers who have switched from higher tar cigarettes to 'Enriched Flavor'm MERIT.

MERIT Taste Winner!

Nationwide survey reveals over 90% of MERIT smokers who switched from higher tar are glad they did. In fact, 94% don't even miss their

former brands.

Further evidence: 9 out of 10 of these former higher tar smokers report MERIT an easy switch and that they didn't give up taste in switching.

Year after year, in study after study, MERIT remains unbeaten. The proven taste alternative to higher tar smoking—is MERIT.



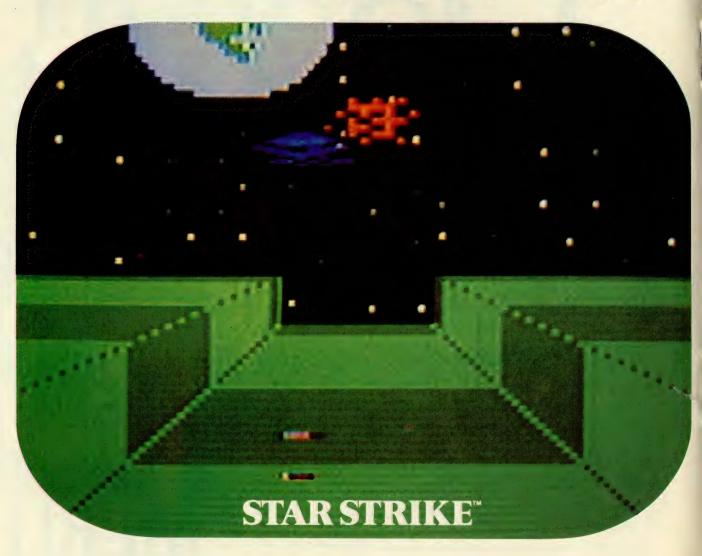
Warning: The Surgeon General Has Determined That Cigarette Smoking Is Dangerous to Your Health.

© Philip Morris Inc. 1982

Kings: 7 mg ''tar,'' 0.5 mg nicotine—100's Reg: 10 mg ''tar,'' 0.7 mg nicotine— 100's Men: 9 mg ''tar,' 0.7 mg nicotine av. per cigarette, FTC Report Dec'81

Kings & 100's

"EITHER THIS SPACE GA OR MY LIVI GOING 1



STHEIRIBEST ME EVER. NG ROOM IS 65 MPH?

Aliens up ahead. Aliens attacking from the rear. Alien ships on every side. Meanwhile, the earth is moving steadily into range of enemy missiles, as the alien planet rushes by below.

Presenting Star Strike. The exciting new space game complete with brilliant colors, gripping tension, and special effects so realistic they appear threedimensional. So you almost feel like you're flying.

Be careful, though, and don't lose your concentration. You've got to destroy the enemy planet. Before it

destroys the earth.

Play Intellivision® Star Strike. Then, when the battle's over and the dust is clear, compare it to other space games. We think you'll agree that color, excitement and special effects make MATTEL ELECTRONICS® INTELLIVISION Star Strike the clear winner.

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Intelligent Television



Reach out and touch someone.

Old Glory ***

by Robert H. Wolfe

Answer Drawer, page 68



Stan Newman, a bond analyst from Brooklyn, New York, won the 1982 Grossinger's Crossword Weekend Tournament in Grossinger, New York, as well as the 1982 Annual

American Crossword Puzzle Tournament in Stamford. For "training," he solved more than 1,500 crosswords last year. Stan completed this puzzle under test conditions in an intimidating 11 minutes 34 seconds. If he survives the eliminations, he'll be a top contender at the finals of the First U.S. Crossword Open, which Games will present at New York University on August 14.

ACROSS

- 1 Harness race
- 5 Stoplight color
- 10 Escort, perhaps 14 Hoover, for one
- 17 Cowhand accessory 62 Sheets
- 18 Plantation gal
- 19 Series bet
- 21 Actor Wallach
- 22 One of the
- Cartwrights __ Gay
- (Hiroshima plane)
- 24 Each
- 25 Joint shape
- 26 Red, white, and blue
- 29 Whiskey or bread
- 30 Understanding
- 31 Merry prank
- 32 "Ramblin' wreck"
- school 34 Was conscience-
- stricken
- 35 Sounds of laughter
- 37 Kind of fairy
- 40 ___ as nails
- 43 Custom
- 44 Honest man
- 47 Aqua _
- 48 Where Ben Franklin appears
- 49 Getting on
- 50 Demon of Arab myth
- 52 Austrian river
- 53 Old-fashioned learning

- 54 Red, white, and
- 57 Part of a fold
- 58 Abadan's land
- 60 Equal
- 61 Excavation finds

- 68 Pendulum path
- of nature)
- 73 Red, white, and

- Clark

- 94 Parrot
- 100 Red, white, and
- 105 Witness stand vow
- 106 Do a tire task

- blue

- 64 Brown
- 66 Author of Magister Ludi
- 67 Quintet
- 69 Fiddle-faddle
- 70 __ major (force
- blue
- 77 Dance tune
- 79 Rats
- 81 Evelashes
- 82 Ollie's tormentor
- 83 Designer clothes
- monogram
- 84 Smidgen
- 86 Intuit
- 88 Prepares to fire
- 91 1981 Polanski film

- 78 Court star
- 80 Published

- 85 Attorney General 116 Impertinence

- 90 Gandhi garb
- 93 Graceful horse
- 98 Sailor
- blue

- 107 Follower of
- 109-Across
- 108 Columnist Bombeck
- 109 A sign of summer
- 111 "When ___
- (Leo Sayer hit) 112 Part of a watch
- 113 Interrogate
- 115 Monopoly cards

- 1 Vestige
- 2 Contemporary of
- 3 Moiré patterns, e.g. 4 Cool-headed
- 7 Sudden shock 8 Noted "scatter"

9 Kind of admiral

- 10 Knock a few back

- 110 Reckoned
- You"
- 114 Fields' 1940 co-star 19 Apostolic

 - DOWN

 - Gorgo and Godzilla 38 Lock
 - 5 Countenanced 6 Doctored up

- 11 Obi-Wan's portrayer
 - 12 Implied
 - 13 Grommet 14 Red, white, and
 - blue
 - 15 Friend
 - 16 Ryun's run
 - 20 Copycats 27 Habituate
 - 28 London quarters 33 Office fixtures 35 Venetian traveler
 - 36 They can be loose or tight
 - 39 Robust 40 Piece of property 41 Blanket material?
 - 42 Red, white, and blue 43 Threadbare 44 Coach Parseghian

102

- 45 VIP 46 Makes plates
- 50 Hairdo
- 51 Pound pest 54 Tapers
- 55 Vanzetti's partner
- 56 Truckstop entree 58 Division word
- 59 Lots of business? 63 Seance scent
- 64 Rob Reiner's dad 65 Planets 67 Fake gems
- 69 Radioactive electron
- 71 Tennis's "Nasty" 72 Command to Rover
- 73 Famed "Mama" 74 Universe
- 76 Brazil and others 77 Unbounded 81 Lesser Antilles

native

75 Recess

- 84 It's stored in a
- silo
- 85 Ranch foremen 87 Money held by a
- third party
- 88 Labyrinth site 89 Did crew work 90 Blockaded and
- bombarded 92 Incline · 93 Opposite
- of après 95 Main artery 96 Unabridged
- dictionaries, e.g. Fromagerie purchases
- Western "monster"
- 99 Keats feats 101 Footballer Sistrunk
- 102 Rah-rah 103 Prong
- 104 Corner

GAMES July/August 1982

Boxed Fives ***

by N.M. Meyer

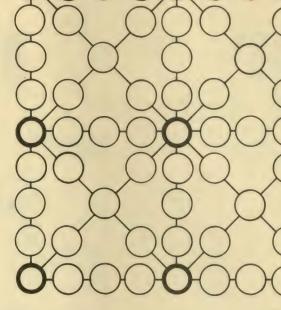
Each of the 20 five-letter words below is to be entered in five consecutive circles in the grid at right—horizontally, vertically, or diagonally—to complete the design. Each word will begin and end in a dark circle, and all diagonal words will read downward. From the overlapping of letters, can you discover—by logic—the unique solution?

Answer Drawer, page 72

ELDER	LAPSE	NAIVE	STALL
ELITE .	LODGE	NOVEL	THORN
EMPTY	LOVER	RIDGE	TRAIL
ENVOY	LUMPY	SHARE	TRUCE

SPORT

TWIRI



Unreal Estate *

LUNGE

by K.M. Paskert

EXCEL

For those who have always wanted to live in a fantasy world, the classified ads below may help solve the housing problem. These ads were placed in the "unreal estate" section of the Xanadu Times, each one selling or renting a fictional piece of

property. Can you identify the owners from the descriptions of the properties? For example, the first ad was placed by Snow White.

Answer Drawer, page 72

PROPERTIES: RESIDENTIAL AND COMMERCIAL Example FOR SALE by own- I BEDRM APT BAR/RESTRNT in RETIRING, must | FOR S ers: Wntr vactn availbl immedly in prime Queens sell farm, complt ers: \ loctn, reglr clienhome, sm white w/chickens, cows, upper Manhattn. house cottage, sleeps ducks, horses, Currnt tennts must tele, gd bsnss. isl for seven. Write BOX lambs, pigs, dogs, vacate due to in-Meatheads, dingbedrm SW etc. Near fast-food compatibility. One bats need not applete restrnt. Contact ply. Contact BOX bedrm regs com-Write MAGNIFICENT tree plete cleaning. BOX OM. AB. OWNE SM HOUSE for Write BOX OC. house on tropical bona isl for sale. Owners OWNER MUST hou must return to Switrent. Lovely ginger-HOMEOWNER'S SACRIFICE Southrn cot zerland. Write BOX bread ext. owner mansion. Butler bonanza! Ranch sev loves children. For house on Irg has left along SV more informtn, conspread, nr Virginw/ former staff. tact BOX H/G. ia City. Write BOX Some Civil War WER'S HOME BC. damage. BOX SQ

Cryptic Crossword ***

by Henry Hook

Each clue in a cryptic crossword puzzle, unlike those in regular crosswords, has two parts: a direct or indirect definition of the answer and a second description of the answer through wordplay. Seemingly, having two paths to each answer should make cryptic puzzles easier to solve. But in fact they're more challenging. Here are some examples to show you how they work.

"E.R.A. term up unfortunately early (9)." The answer is PREMATURE. It is defined as "early," and is formed by anagramming the letters of E.R.A. TERM UP. The word "unfortunately" suggests the scrambling of letters. An anagram is always indicated by a word or phrase suggesting poor condition or mixing.

"Remain in Amherst a year (4)." The answer, STAY ("remain"), is literally found in the letters of "Amherst A year."

"Virginia gave permission to the servant (5)." This is a charade clue, in which the answer, VALET ("servant"), is a composite of VA (abbreviation of "Virginia") and LET ("gave permission").

"It is held by a light brown giant (5)." This is a container clue. The answer, TITAN ("giant"), consists of IT (the first word) within ("held by") the word TAN ("a light brown").

"One way to stop a habit of Thanksgiving leftovers? (4,6)." The answer, COLD TURKEY, is punningly defined twice in the clue.

Other tricks of clue-solving have been discussed in previous issues. If you are new to cryptic crosswords, start with the Warm-Up Puzzle at right and refer to the Answer Drawer for explanations.

Warm-Up Puzzle for New Solvers *

Detailed explanations of answers appear in Answer Drawer, page 68

by Emily Cox and Henry Rathvon

ACROSS

- 1 Preacher is beheaded for setting fire to a building (5) beheadment
- 4 Nest among kangaroos temporarily (5) hidden word
- **5** Coiling adder inspires fear (5) anagram

1 2 3

DOWN

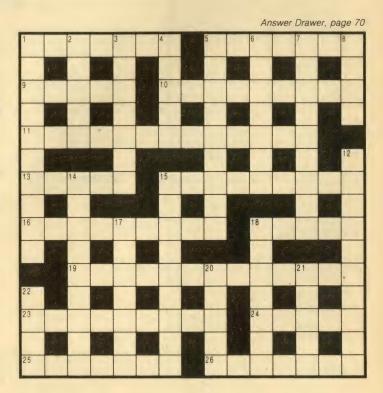
- 1 Anger in commercial is televised (5) container
- 2 Twenty songs in a musical (5) second definition
- 3 No member of the Kennedy family is famous (5) *charade*

ACROSS

- 1 Clam soup he'd crow about (7)
- **5** Burr, the whimsical author (7)
- **9** There's one in my purse (5)
- 10 States of lawlessness— Bunker's on the trail of one (9)
- 11 A piece of furniture in a brief performance (3-5,5)
- 13 Peg holds gym class in a tent (5)
- 15 Awful squeeze in bed (5-4)
- 16 Reagan goes back to the one good man in New England (9)
- 18 Paid announcement accommodates men, correct? (5)
- 19 Reportedly, a computer technician is a forger? (13)
- 23 Flew about, say! (9)
- 24 Flower at the heart of the Dubliners (5)
- **25** Composer, besieged by overdose, exaggerated (7)
- **26** Kind of comedian to miss an appointment (5-2)

DOWN

- 1 Arriving to protect the stronghold—that's reassuring (10)
- 2 Weight dropped on cue (5)
- 3 Morning date, I'm told (7)
- 4 In the end, reproach a disgusting insect (5)
- 5 Brief torrential rains filling tent (9)
- **6** 50% of unchastity at home is free (7)
- 7 In rhyme, a trio climbed in from all directions (5,4)
- 8 Impetuous, Sarah carelessly loses one (4)
- 12 "Guidance destroys," said Helper (10)
- 14 Awkwardly reach up at a skydiver's gear (9)
- 15 At home in four (9)
- 17 Eerie tune had tormented (7)
- 18 Country I captured by camera in travel (7)
- 20 New wife's going topless in car trips (5)
- 21 Attempted to make it red, possibly (5)
- 22 Frizzy hairdo for a stranger (4)



Double Cross **

by Michael Ashley

Answer the clues for words to be entered on the numbered dashes. Then transfer the letters on the dashes to the correspondingly numbered squares in the puzzle grid to spell a quotation reading from left to right. Black squares separate words

in the quotation. Work back and forth between grid and word list to complete the puzzle. When you are done, the initial letters of the words in the word list will spell the name of the author and the source of the quotation.

Answer Drawer, page 71

	15		20	3D	41	5A		6K	7M	8L	9 X	10H	***	11C		12Q	13E	14N	15C		16S	17V
18F	191	20C	21K	22R	23H		240	25P	100	26E	27M	28D	29F	30N	31Q	32G	33C		34X	35V	36A	37K
88W	39T	10	40S	41D	42G	430	44W		45S	46H	47U		48L	49U	50N		51C	52G	53A		54S	55M
6R	57K	58F	59X	60L		6 1H	62E	63P		64A	651		66U	67B	68L		69W	70T	71J	72B		73C
4 J	75P	76G	-6	77J	78D	798	800	8 1H		82J	83G	84B	850		86K	87D	88P	89F	90Q	9 1 V	92X	93W
40	951	96C	97V	11	98P	99D	100F	101N		102A	1031	104V	105Q	106D	107C	1085	109H	110B	111L		112W	113
14L	115E		116W	117D	118R	119X	120F		121B	122J	123M	124A	125R	126E	127L	10	128V	129D	130R		1311	1321
	133K	134L	135D	136Q	137T	1385	139J	140U	1410	142A	143X	l je	144Q	145A	146R		147H	148T	149P		150U	151F
	152N	153W	154B		155Q	156A	1571	158V	08	159P	160A		1611	162W	163Q	164A	165G		166W	167E		168
69U	170J	171S	172X	173E	174B	175F		176V	177X	5.80	178E	179N		180P	181X	182C		183K	184X		185E	1861

					/																		
A.	DiMaggio's domain	142	5	145	53	124	164	160	64	156		M	. Midday	7	27	55	123						
	(2 wds.)									36	102	N.	Legislative body	14	30	50	101	152	179				
В.	Pagan	67	72	84	110	121	154	174				0.	Texas' largest		24	43	80	85	94	141			
C.	Royal servant	11	15	20	33	51	73	96	107	182		P.	Bringing					_	Militaria	-			
D.	Circuitous	78	87	129	28	99	3	41	106	135	117	0.	together Yale	63	75	159	25	149	98	88	180		
E.	Intoxicating beverages	115	185	178	13	126	173	62	26	167			University's city (2 wds.)	31	90	155	105	144	12	163	136		
F.	Contemplate, picture		151	89	58	29	Witnessee	175				R.	Comfortably warm	22	56	118	125	130	146				
G.	Bring tranquillity, comfort	32	42	52	76	83	165					S.	Impartial, fair	108	16	79		171	40	45	54	138	
н.	John Forsythe's				Newson	-	WARRING TO SERVICE OF THE PERSON OF THE PERS					T.	Facts	39	70	137	148						
T	TV series Necessity's	147	23	10	46	109	81	61				U.	Keep waiting, delay	47	49	66	140	150	169				
	offspring?	103	95	- 4	157	65	161	113	131	19		v.	Maneuvers around,	128	17	176	132	97	35	91	158	104	
J.	Soft and downy	71	74	77	82	122	139	170					militarily –										
K.	Rebate	6	21	86	37	183	168	133	57			W.	Lake creature resembling the trout	112	153	166	44	38	69	93	116	162	
L.	Study of word derivations	68	186	111	48	8	114	134	60	127		X.	Remarkable, of importance	59	177	34	143	9	181	119	92	172	184

Inside Track **

by Ralph Maus

Each of the five-letter palindromic sets of letters below can be found intact somewhere in a familiar English word—as the be-

FOLD THIS PAGE

The crossword on this and the next two pages has two independent sets of clues: "Hard" and "Easier." First, fold this page back on the dashed line so the clues below face the solving grid on page 45. If you use only the Hard Clues (appearing below, and continuing under the grid), you'll find the commonly shallenging. If you need help, or prefer a

open to the Easier Clues (tucked in ge 44). Remember, to peek or not to

about what to give your friends? Give

1 year (12 fun issues) for only \$14.97!

NAME UCSB4 NAME ADDRESS ZIP	- 4 11. · - · · · · · · · ·
SEND GIFT TO: NAME	For foreign and Canadian orders add \$2.00 per subscription. List additional gifts on separate sheet and enclose.
□ Payment enclosed. □ Bill me later. Charge to: □ Visa □ MasterCard Expiration Date: Account #: Signature 18. SICIS 19. ANGNA	Aiger story 53 Bender 55 Wire periods 58 Make a seat

l's Most

bn

** Goes bad Isolates Mercury B Let down mister 8 Hop goer O Show horse 4 Center of l'Etoile 7 Pusher's unit 3 The Big _ (1980 Lee Marvin movie)

Took to the trail Wardrobe for

Indira

ALL Expanded

114 Airy fairy

119 Take-home

60 Twelve Oaks

and Tara, e.g.

62 Kidder's co-star

113 97-Across, e.g.

116 Gordon and Savers

foster parents?

118 Lord Greystoke's

- "Oh how. to get up in the morning" One of Louis XIII's guards Outfielder Otis Parlor offerings Rock singer Ted Skips town 131 Bring up "I Walk the Line" singer Opp. of legato Time for a vigil Talk show host Sonnet ending It's next after Alexander flavor The dawn's early light 147 Stradivari's 1 Unanimous cry 3 Taylor and Torn 4 Mrs. Miniver's 7 Pitcher's avg. 1 Margarita's trim 2 Acapulco aspens
 - 121 Prefix with type or system 122 Give the onceover
 - 124 SAG members 126 Anthony Armstrong-Jones
 - 128 Bouncer's request
 - 132 Lucy's friend and namesakes
 - 133 Day after dimanche
 - 134 Realm of Landseer's Lions 138 Imbrium or
 - Tranquillitatis 139 Half of "six the
 - hard way 143 Female followings
 - 144 Motoring 180s
 - 145 Brain part
 - teacher
 - 148 Jurisdiction 150 Frontal
 - 152 Piddling amounts
 - 153 Like Zorro 154 Rocket circuits
 - 155 Deviant
 - 156 Monetary prize
 - 157 Enzymes
 - 158 Backscratcher
 - 159 Coup conclusion

 - 160 Eye ailments

DOWN

- 1 Photos
- 2 Jeweler's weight
- _ Million Sold!"
- 4 Mystically religious
- 5 Do in
- 6 Unaccented
- 7 Jeered

20. LYSYL

Double Cross **

by Michael Ashley

Answer the clues for words to be entered on the numbered dashes. Then transfer the letters on the dashes to the corre-

spondingly numbered squares in the p

in the quotation. Work back and forth between grid and word list to complete the puzzle. When you are done, the initial let-

tation reading from left to right. Black

141	18	100	20	3D	41	5A
18F	191	20C	21K	22R	23H	
38W	39T		40S	41D	42G	430
56R	57K	58F	59X	60L		611
. 1	75P	76G		77J	78D	795
	951	96C	97V		98P	990
114L	115E		116W	117D	118R	119
	133K	134L	135D	136Q		138
		153W				156
169U	170J	1718	172X	173E	174B	175



B. Pagan 72 84 110

C. Royal servant 11 15 20 33

D. Circuitous 78 87 129 28

E. Intoxicating 115 185 178 13 beverages

F. Contemplate, 100 151 89 58 picture

G. Bring 42 52 76 tranquillity, comfort

H. John Forsythe's 147 23 10 46 TV series

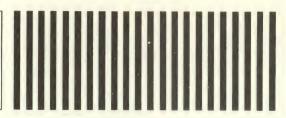
Necessity's 95 4 157 offspring?

Soft and downy 74 77 82

K. Rebate 21 86 37 183 168 133

Study of word 186 111 48 8 114 134 60 127 derivations

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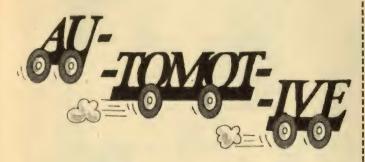
W	Lake creature resembling the trout	 153	166	44	 -	-	116	-	
_									

X. Remarkable, 59 177 34 143 9 181 119 92 172 184 of importance

Inside Track **

by Ralph Maus

Each of the five-letter palindromic sets of letters below can be found intact somewhere in a familiar English word—as the beginning, middle; or end. How many of the encompassing words can you identify? An example has been provided to get you started. Answer Drawer, page 71



Ex:	TOMOT	AUTOMOTIVE
1.	AWKWA	
2.	YNONY	
3.	SSASS	
4.	OLKLO	
5.	YBABY	
6.	WEREW	
7.	ORKRO	
8.	NOTON	
9.	RIDIR	
10.	OTSTO	
11.	ATHTA	
12.	ROPOR	
13.	OLILO	
14.	NDIDN	
15.	ROBOR	
16.	LETEL	
17.	RAMAR	
18.	SICIS	
19.	ANGNA	
20.	LYSYL	

The crossword on this and the next two pages has two independent sets of clues: "Hard" and "Easier." First, fold this page back on the dashed line so the clues below face the solving grid on page 45. If you use only the Hard Clues (appearing below, and continuing under the grid), you'll find the puzzle uncommonly challenging. If you need help, or prefer a less severe challenge, open to the Easier Clues (tucked in beneath your fold on page 44). Remember, to peek or not to peek is up to you.

The World's Most **Ornery Crossword**

Geometry Lesson

by Mike Shenk

Hard Clues ***

ACROSS

- 1 Caledonian
- 6 Mohammed's uncle
- 11 Innocents
- 16 Greeks got here by horse
- 20 Maritime
- 21 One on One actress Annette
- 22 Adjective for SPCA'ers
- 23 Macbeth or Macduff, e.g.
- 24 Bowl
- 25 Relax
- 26 It's strait-laced
- 27 Shantytown abode
- 28 Political demarcations
- 30 Their motto is 'do or dye'
- 32 Trainmaster's 'toad'
- 33 Headliner
- 34 Champing at the bit
- 35 Site of some disappearing acts 38 Acropolis style
- 40 Euphonious
- 41 Gardener, at work
- 42 Yore
- 43 Exemplar of flatness
- 46 "Full of . cruelty" (Macbeth)
- 47 Mayo et al.
- 51 Douglas, for one
- 52 Start of a Horatio
- Alger story 53 Bender
- 55 Wire periods
- 58 Make a seat
- 60 Twelve Oaks and Tara, e.g.
- 62 Kidder's co-star

- 64 "Oh how __ to get up in the morning'
- 66 One of Louis XIII's guards
- 68 Outfielder Otis
- 69 Parlor offerings
- 72 Rock singer Ted 73 Skips town
- 74 "I Walk the
- Line" singer
- 75 Opp. of legato
- 76 Time for a vigil
- 77 Talk show host
- 78 Goes bad
- 79 Sonnet ending
- 81 Isolates
- 83 It's next after Mercury
- 85 Alexander flavor
- 86 The dawn's early light
- 88 Let down
- 91 Unanimous cry
- 93 Taylor and Torn 94 Mrs. Miniver's
- mister 97 Pitcher's avg.
- 98 Hop goer
- 100 Show horse
- 101 Margarita's trim
- 102 Acapulco aspens
- 104 Center of l'Étoile
- 107 Pusher's unit
- 108 The Big _ (1980 Lee Marvin movie)
- 50 Xanadu musical grp. 109 Took to the trail
 - 110 Wardrobe for
 - Indira
 - 111 Expanded 113 97-Across, e.g.

 - 114 Airy fairy
 - 116 Gordon and Sayers
 - 118 Lord Greystoke's foster parents?
 - 119 Take-home

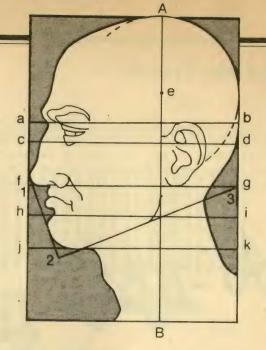
- 121 Prefix with type or system
- 122 Give the onceover
- 124 SAG members
- 126 Anthony
- Armstrong-Jones
- 128 Bouncer's request
- 131 Bring up 132 Lucy's friend
- and namesakes
- 133 Day after dimanche
- 134 Realm of
- Landseer's Lions 138 Imbrium or
- Tranquillitatis
- 139 Half of "six the hard way'
- 143 Female followings
- 144 Motoring 180s
- 145 Brain part
- 147 Stradivari's teacher
- 148 Jurisdiction
- 150 Frontal 152 Piddling
- amounts
- 153 Like Zorro
- 154 Rocket circuits 155 Deviant
- 156 Monetary prize
- 157 Enzymes
- 158 Backscratcher
- 159 Coup conclusion
- 160 Eye ailments

DOWN

- 1 Photos
- 2 Jeweler's weight
- ____ Million Sold!"
- 4 Mystically
- religious 5 Do in
- 6 Unaccented
- 7 Jeered

The World's Most Ornery **Crossword (Continued)**

Don't Peek Until You Read Page 43!



Easier Clues *

ACROSS

- 1 Edinburgh natives 6 Arabian garments
- (AS A B.B. anag.) 11 Athletes Ruth and Zaharias
- 16 Helen of ___
- 20 Of ships
- 21 Peter of Lawrence of Arabia
- 22 Kindly compassionate
- 23 Anglo-Saxon governor (NEATH anag.)
- 24 Sports hall
- 25 Make less tight
- 26 Shoelace hole
- 27 Crude hut
- 28 Shared telephone connections: 2 wds.
- 30 Spacious living rooms
- 32 Jump the track, as a train
- 33 One of a constellation
- 34 Greedily eager
- 35 Mysterious Caribbean region: 2 wds.
- 38 Of charged particles
- 40 Melodious (LED CUT anag.)
- 41 Garden weeder
- 42 Antiquity: Obs.
- 43 Flapjack
- 46 Most dreadful
- 47 Community health 102 Los ____, NM centers
- 50 Chess rating system (LEO anag.)
- 51 Evergreen tree
- 52 Scraps of cloth
- 53 Drinking bout

- 55 Ceases
- 58 Walking prop
- 60 Bequeathed properties
- 62 Superman star Christopher Bracken's _
- Cook Book: 2 wds
- Musketeers 'n' Andy
- 69 Dairy Queen
- treats: 2 wds. Lucy Baines .
- nee Johnson Flees hastily
- 74 Money
- 75 Musically disconnected: Abbr. 76 Eden maiden
- 77 TV host Griffin
- 78 Decays
- 79 Six-line verse
- 81 Surrounds with water (LEE'S SIN anag.)
- 83 Zodiac twins
- 85 Chocolate flavor source
- 86 ____ Borealis
- 88 Decreased 91 Broadway's A_ Line
- 93 Tears up
- 94 Red Skelton's Kadiddlehopper" 148 Realm
- 97 Kin of age or epoch
- 98 Adolescent
- 100 Saudi native 101 Pepper partner
- (bomb test site)
- 104 Paris landmark: 3 wds.
- 107 1,000 grams, for short 108 Made over

- 109 Went on a scout outing
- 110 Gowns of India 111 Made broader
- 113 Ending for thermo or photo
- 114 Airy spirit (SHY LP anag.)
- 66 One of the Three 116 Strong winds
 - 118 Gorillas
 - 119 High-wire artist's fallback
 - 121 Environment: Prefix
 - "_____ Benders" (Games feature)
 - 124 Cast members 126 Earl of
 - (Princess Margaret's ex)
 - 128 Relatives of egos and superegos 131 Back end
 - 132 Barrymore and
 - Kennedy 133 Monday: Fr

 - 134 London park: 2 wds.
 - 138 Stallion's mate 139 Poker three
 - 143 Women's quarters
 - in the Mideast
 - 144 Freeway taboos
 - 145 Half the globe
 - 147 Famed violin maker (AIM AT anag.)

 - 150 Have a good one's shoulders: 2 wds.
 - 152 Greek I's
 - 153 The ____ Crusader 29 Boniest (Batman) 154 Circles a planet
 - 155 Making mistakes
 - 156 Handbag
 - __ Death, from Peer Gynt (SEAS anag.)

- 158 Ugly and warty
- 159 Coup
- 160 Eyelid swellings Var.

DOWN

- 1 Ginger cookies
- 2 Jeweler's unit
- barrel (helpless): 2 wds.
- 4 Of some Hindu writings (IN TRACT anag.)
- 5 Murder
- 6 Spoken without accent
- Derided the villain
- 8 Foreman
- 9 Pub drink 10 Unconscious
- 11 Purchase the entire stock of: 2 wds.
- 12 Change
- 13 Very light wood
- 14 Opposite of WSW
- 15 Collection
- 16 Rose stem growth 17 Work havoc upon
- 18 Playwright Eugene
- 19 Cried out
- 21 Oscar-winner Laurence and family
- 22 Headgear for knights
- 23 Imaginary line of the polar region: 3 wds.
- 31 Circle parts 32 "The _ _ cast": 2 wds. 35 Actor Meredith
- 36 Robbers 37 Nickname for
 - Reagan

- 39 Clumsy fool
- 40 One-celled organisms (MASTOID anag.)
- 43 Nut used in pies
- 44 Old-time warning (A MURAL anag.)
- 45 Period of youth
- 46 Of the theater
- 47 Manger scene 48 Sly look
- 49 London theater district
- 54 Magician's word
- 56 One square of a cartoon "Wild and crazy"
- comic Martin
- 59 Come into sight
- 61 Eagle's claw 63 Diners
- 65 Suffixes for Japan and Taiwan
- 67 Style of writing, general to specific: 2 wds.
- 69 Drink cooler 2 wds
- 70 Houses: Sp. 71 Racing's _ War: 2 wds.
- 78 Cyclists
- 79 Actress Bernhardt
- 80 Like a Manx cat 82 Lettuce dishes
- 84 Be introduced to 85 "Whodunit" body
- 87 Author . Sinclair 88 One of Jacob's wives
- 89 Florentine iris (SIR OR anag.)
- 90 Crazy 92 Skater Dorothy
- _ of the Lost Ark

- 95 Overacted
- 96 Location of Monte Carlo
- 99 Famous waterfalls
- 101 Support for Jean Claude Killy: 2 wds.
- 102 Forest of France
- (ENSNARED anag.) 103 Dragonwyck
- author Anya (TONES anag.) 105 Proofreader's
 - mark for 'remove'
- 106 Spoken 111 Drainage area
- 112 Guaranteeing
- 115 Shoe parts __ rings (feature of the
- sixth planet) 120 Fox, in northern
- England 123 Sack
- 125 Detective Charlie 127 Lacking
- 128 City of central New York
- 129 Serious plays 130 Mexican blanket
- 132 Fairness _ Cranston
- "The Shadow") 135 Outdoor festivals
- 136 Cuban dance 137 Sober and sedate 138 TV, newspapers,
- radio, etc. 140 Make another
- attempt 141 Wipe clean
- 142 Affirmatives 145 Stag
- 146 Gladys Knight and the _ 148 Morse symbol
- 149 Gold: Sp. 151 Before

1	2	3	4	5		alle of	6	7	8	9	10	13.00	Service Service	11	12	13	14	15			16	17	18	19
20						21							22							23				
24						25							26							27				
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104			105					106						107					108					
109					12/16	110							111					112			113			
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147					lan.	148	149					1	150	151						152				
153						154							155							156				
157						158						5 7	159							160				

Hard Clues (cont'd)

- 8 Tweed, for one
- 9 End of some hops
- 10 Irrational
- 11 Go from partner to owner
- 12 Better, perhaps
- 13 Glider wood
- 14 Hydrocarbon suffix
- 15 Complete series
- 16 Honey locust hazard
- 17 Plunder
- 18 Chaplin's fatherin-law
- 19 Raised the roof
- 21 Miniaturists Peter and Isaac
- 22 Tops for ends

- 23 661/2° North Latitude
- 29 Most gangling
- 31 Trajectories
- "The ____ cast" 32
- 35 A Clockwork
- Orange author Baba's opposition
- 37 Actor Howard
- 39 Lummox
- 40 Plankton constituents
- 43 Texas state tree
- 44 Call to arms
- 45 Grounds for barring from a bar
- 46 Striking
- 47 Yule diorama

- 48 Look like a wolf?
- 49 Neighbor of the Village
- 54 Rapidly, in music
- 56 Jury
- 57 Canyon of the strips
- 59 Pop up
- 61 Wastepile in solitaire
- 63 Gourmands
- 65 Linguistic endings 67 News story
- 69 Rock in a sling?
- format
- 70 Haciendas 71 Hawaiian shark
- 78 Coaster fans
- 79 Polk's First Lady

- 80 Like an unsteady kite
- 82 Caesar and Waldorf
- 84 Bump into
- 85 Contents of The Wrong Box
- George ("Peregrine Pickle") _
- 88 Levi's mother
- 89 Gold braid
- 90 Off the wall 92 Skywalker, really
- 93 Oakland gridders
- 95 Melodramatized
- 96 Grace's place 99 Falls for lovers
- 101 Stick up at Aspen?

- 102 Site of the Battle of the Bulge
- Unleash for attack 135 Regales
- 105 Strike out Middle name of 106
- Granville Roberts 111
- Reservoir region 112 Nailing down
- 115 Follows à la Fido
- 117 Apollo rockets
- 120 Falkirk fox 123 Catch
- 125 Honolulu sleuth 127 Excluding
- Penelope's home 128 129 Albee output
- 130 Wrap for Renaldo
- 132 Word sometimes after 124-Across

- 133 Half of Sanford . and Son
- 136 Cugat's
- kingdom" 137 Serious
- 138 Oils, charcoal, ink, etc.
- 140 Subject to double jeopardy
 - 141 "Clear tape"
- 142 Sycophant's answers
- 145 Role for Wagner or Powers
- 146 Wonderful things
- 148 Braille bit
- 149 ____ y plata
 - 151 Afore

Solitaire Hangman **

by R. Wayne Schmittberger

As in the two-player version of Hangman, the object of this solitaire challenge is to guess the identity of a word before being "hanged."

To begin, choose any letter of the alphabet that you think might be in word I. Suppose you pick E. Go to the Letter Chart on the right and find the number listed in row E of column I (because you are working on word I). The number is 10; you now look in box number 10 in the Position Chart at the bottom of the page and find the number 2. This means the letter E occurs in the second position (and nowhere else) in word I. If a letter occurs more than once in a word, the Position Chart will show all its locations.

If you find from the Position Chart that a letter appears in position 0, then that letter does not appear in the word. As a penalty for an incorrect guess, you must draw part of a stick figure below the scaffold beside the word blanks. On your first incorrect guess, draw the head; on the second, the body; and on the next four, the arms and legs. If you complete the figure (that is, make six incorrect guesses) before identifying the word, you are "hanged."

If you can identify seven of the 10 words below before being hanged, you're a real pro.

Answer Drawer, page 68

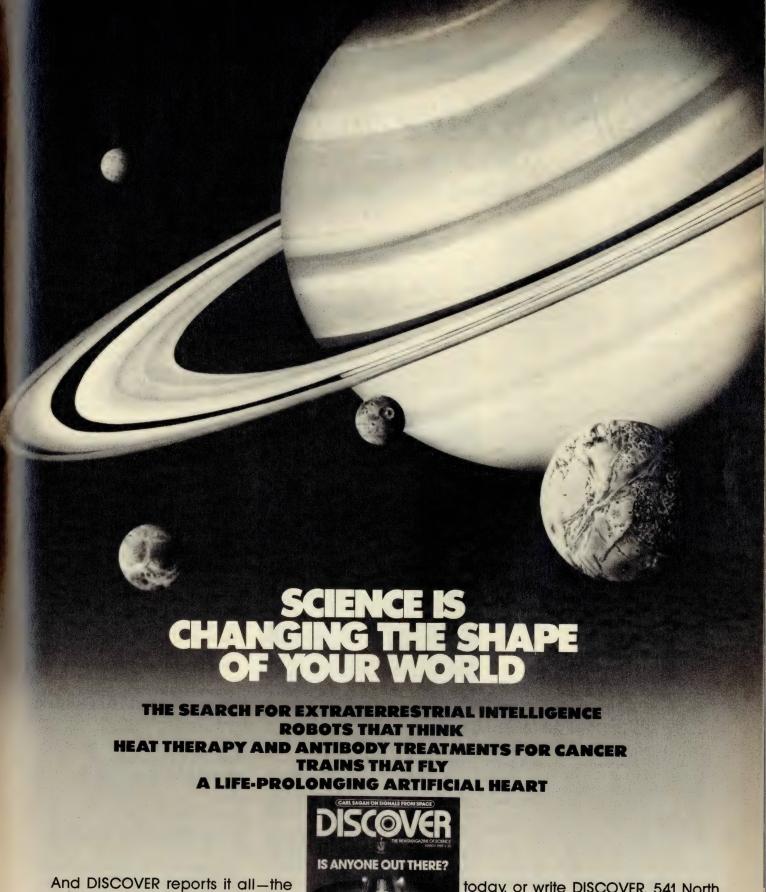
1		E							
1.	1	2	3	4	5	6	7		
H.	1								
	1	2	3	4 .	5	6	7		
III.	1	2	3	4	5	6	7	8	
									7
IV.	1	2	3	4	. 5	6	7		
V.	. 1								
	. 1	2	3	4	5	6	7		
VI.	1	-2	3				7		
									_
VII.	1	2	3	4	5	6	7		
VIII.									
	1	2	3	4	5	6	7		_
IX.									
X.	1	2	3	4	- 5		7		
									-

LETTER CHART

		11	III	IV	V	VI	VII	VIII	IX	X
Α	65	15	24	11	63	44	28	62	20	76
В	63	48	5 1	57	34	58	75	1.7	26	80
C	23	58	35	25	73	48	23	33	48	16
D	43	80	61	75	4	54	18	51	39	63
E	10	46	31	80	81	8	74	48	37	5
F	14	26	68	65	68	63	51	37	29	11
G	70	42	13	23	16	42	16	46	16	42
Н	75	16	6	48	29	35	6	70	68	50
1	66	54	33	9	70	60	38	33	27	33
J	29	23	75	58	73	33	57	23	58	18
K	6	68	73	46	80	18	29	14	18	6
L	33	56	14	18	65	75	69	49	52	73
М	1.6	32	51	73	37	51	73	63	29	65
N	38	35	67	35	14	78	64	16	75	54
0	18	72	16	29	51	20	54	29	14	13
P	51	63	37	68	42	29	33	44	58	46
Q	54	14	42	65	23	72	48	73	23	35
R	68	79	21	33	54	14	35	58	53	45
S	77	58	46	19	43	46	44	18	70	55
Т	74	29	65	53	11	16	37	68	51	23
U	35	2	70	69	7	41	65	12	42	14
٧	46	37	80	42	18	23	79	80	33	75
W	73	6	18	70	58	73	46	54	16	67
X	42	65	6	37	33	64	65	75	14	44
Υ	53	75	54	51	75	68	58	40	6	58
Z	37	48	23	63	80	37	73	23	71	18
	1	11	111	IV	٧	VI	VII	VIII	IX	X

POSITION CHART

	-	_	_		_		_	_																		
$\frac{1}{2,3}$	5	3 8	4,7	<u>5</u>	6	⁷ / _{2,5}	8	9 2,6	10 2	110	12 2	13 5	14	15 7	16	17 6	18	19	<u>20</u>	<u>21</u>	22 1,4	23	<u>24</u> 6	<u>25</u> 4	<u>26</u>	27
28 2	29	<u>30</u> 6,7	2,4,8	32	33	34	35	36 5,8	37	38	39	40 7	41	42	43	44	4 5 6	46	47	48	1,3,4	50	51	52	53 7	54
55 1,7	<u>56</u>	<u>57</u> 1	58	59 1,3	60	6 1 7	62 5	63	<u>64</u> 7	65	66 5	67	68	6 <u>9</u> 5	70	71 4,5	72	73	74	75	76	77	78 5	79	80	81



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AMERICA'S LEADING SCIENCE MAGAZIN

The Soldier and the Silver A Classic Mystery from the Games Library

by Lassiter Wren and Randle McKay

**

more than 50 years ago in The Baffle Books, a popular series of crime and detective volumes published by Doubleday for The Crime Club. How much of this intriguing tale is fact remains unclear. But all the clues you need to play detective and solve the mystery are right before your eyes. .

t happened in Paris in the days before the telephone—the days when carriages drawn by sleek, beautiful horses rolled sedately along the Champs-Elysées. The Franco-Prussian War was not long ended, and brisk young officers and groups of soldiers strolled through the streets, boldly eyeing the ladies on their afternoon rides.

Inside one of the jewelry shops of a fashionable side street, the proprietor, Jules Lemaire, contemplated his lot with satisfaction. He, an elderly man, had a young wife who was both rich and pretty. While other dealers in precious stones had suffered from the war, he had prospered; he had been fortunate in buying many family heirlooms offered at low prices under pressure of the war crisis, and had sold privately abroad. He had given to public war charities. He was in good health. M. Lemaire reveled in his good fortune.

In the middle of a sunny September morning a young man in the distinctive uniform of a French army captain entered the shop and stood, hesitating, near the door. He was a handsome, modest-looking fellow. And a pathetic sight, M. Lemaire thought, as he came forward to greet the prospective customer; for the right sleeve of the uniform was empty, and his single arm hung awkwardly at his side. He seemed perplexed in the splendid shop, like a boy before a counter of expensive candies.

"Ah, Captain!" said M. Lemaire, for he quickly noted the rank indicated by the young man's uniform. "Permit me to be entirely at your service."

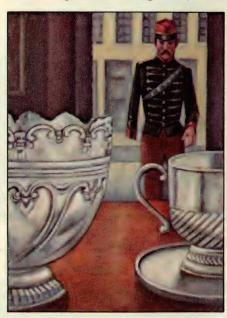
the cordiality of the greeting.

'Monsieur," he said, in a well-bred and almost shy voice, "I am looking for a man with the empty sleeve settled on

This ingenious mystery first appeared really handsome set of silver. The fact is I am charged with the responsibility of purchasing something for the regiment, and it must be fine. It is to be our gift to the Colonel, who is to be married, you see.'

> "Then it must be fine!" M. Lemaire agreed enthusiastically, "and you shall have it, Monsieur le Capitaine, upon my soul!"

> "But the price," the young man said anxiously, as if fearing that the jeweler were taking too much for granted, "that



can't be fine, for we have collected only 1,000 francs. Will you show me something around that figure?'

The jeweler waved his hand deprecatingly as if the price were something one did not speak of too seriously with handsome young patriots fresh from the battlefields.

"I shall see to it, monsieur, that the price is not permitted to be too high"; and M. Lemaire flung open the door of his best cabinet of silver.

The handsome sets seemed to confuse The young man seemed to warm to the prospective purchaser with their attractions. "He knows nothing of such things," thought the jeweler. Finally, the

CHAPPS CHAPS & CHAPPS & CHAPPS & CHAPPS & CHAPPS & CHAPPS & CHAPPS & CHAP

one and inquired the price.

'It is really 1,500 francs," the jeweler replied, "but for you and the regiment it shall be only 1,300!"

The young man offered no remonstrance.

"After all," he said, "we can collect a little more. Yes, it shall be this one—it is just what the Colonel would like. Now, then, I shall have to send for the money. I forgot to say that I am Captain Jacques Loubet of the Seventh Hussars. I shall—'

'But, Monsieur le Capitaine, it is quite unnecessary to pay now," protested the jeweler; "the pieces cannot be engraved as you wish within two days. You can pay then, when I have the set delivered.

"No, I would prefer to have it settled, for I may have to be out of Paris for a few days. I shall send—Ho! Corporal!"

M. Lemaire then became aware that his customer was attended by a corporal, who stood upon the sidewalk outside and now came to the door in answer to the sum-

"DuBois," the jeweler overheard his customer command, "go at once to the barracks and find Captain d'Arcy. Tell him I have found just what I want—but wait! you must have a note to get the money."

'Monsieur," he said, closing the door on the corporal and turning to the jeweler, 'will you be good enough to let me have pen and paper?'

M. Lemaire hastened to fetch them, and the young officer with the empty sleeve seized the pen clumsily with his left hand and began his note. It was necessary for the jeweler to hold the paper for him, and M. Lemaire became painfully aware of the pathos of the situation as the pen balked and spluttered in jagged undisciplined strokes.

"Bah! It is useless. I cannot do it yet," the young man said in a mutter of disgust. "Be good enough, monsieur, to write what

M. Lemaire quickly seized the pen and took a fresh piece of paper.

"Certainly, Monsieur le Capitaine," he said in the brisk tones of one who seeks to gloss over an embarrassing situation, what shall be said?'

"Simply write: 'I have found something

The jeweler waved his hand, as if price was something one did not speak of with handsome young patriots fresh from the battlefields.

that I like—er—more than anything I have yet seen. I wish to buy it at once and need 1,300 francs. Give them to Corporal Du-Bois, who brings this note, so that he can return quickly. If you haven't that much, borrow what is necessary until tomorrow.''

"Thank you, monsieur," he added to the jeweler as he took the written note and affixed his initials at the bottom. He stepped to the door and handed it to the waiting corporal.

"Quickly, DuBois! for I shall wait," he said.

"A splendid fellow!" the young man commented to the jeweler as the messenger departed. "He was with me at Sedan—when I was wounded," he added with a touch of bitterness.

"It is war!" M. Lemaire rejoined in a consoling voice. "Thank God that you lived, Monsieur le Capitaine! Though it must be hard."

The one-armed man nodded grimly. Then, dismissing the subject, he said:

"The corporal will return within the hour. I shall do a few errands and be back before him. There is an apothecary's shop in the neighborhood, monsieur?"

M. Lemaire directed him and watched him pass down the street. A nice, profitable transaction, he mused, as he gave orders for the necessary engraving on the silver service. An hour passed. No doubt the captain had been delayed, M. Lemaire thought. He would wait a half hour before closing up the shop for lunch.

But at 12:30 neither the captain nor the corporal had arrived, and M. Lemaire ordered his assistant to leave for lunch.

"I shall wait," he said, "to receive them both. It would never do for me not to be here to receive the captain."

Still they did not come, and when the assistant returned M. Lemaire explained:

"No doubt they supposed that we would be closed, like everyone else, until two o'clock. I shall just run over to Antoine's and have the table near the window, and you will wave to me from the door when the captain arrives."

But the jeweler ate his lunch and drank his wine undisturbed at the little restaurant across the way, and by three o'clock, back in his shop, he began to be disappointed. He took the precaution to order the engraving to be held up. There would be time enough for that when the 1,300 francs was paid down.

M. Lemaire waited, hoping for an hour and yet another hour. And then, since there was but one more hour left before closing time, he became distinctly irritable over the matter; so that when a tall, black-bearded man walked familiarly into the shop and greeted him jovially at his desk, he seemed scarcely so glad as he should



have been to see his old friend, Mouvenet, of the detective police.

"Well, Jules! And how is it with you now?" said the black-bearded friend, seating himself easily at the jeweler's desk. "No thefts? No robbery? No pickpockets of late? You are pleased with the service of the detective police? *Hein*? Is it not as I said?"

"Your service is very good, Henri," the jeweler replied. "But," he added ruefully, "it cannot protect against customers failing to complete large sales, can it? No. My fine 1,300 francs, they have failed to walk in. Bah!" And he told Mouvenet the incidents of the one-armed soldier's visit.

"Too bad indeed," Mouvenet agreed.
"No doubt he found a cheaper set. But
you might call on him at the barracks
tomorrow, Jules, and make him a better
price. You have his name, of course?"

"Captain Jacques Loubet, Seventh Hussars. I fear he has already purchased elsewhere," said the jeweler.

"Perhaps so. Loubet—Loubet—no, I do not know the name," mused Mouvenet, lighting a cigarette and leaning back in his chair meditatively.

"Ah, well!" said M. Lemaire, "I shall forget him and his set of—" But his eye suddenly fell on the face of his friend Mouvenet. The man was staring wildly with the transfixed gaze of one on the verge of a startling thought.

"Mon Dieu!" the detective cried.

"What is it, Henri? Are you ill?" M. Jules Lemaire demanded in alarm.

"Jacques—Loubet," intoned the detective. "Oh, mon Dieu!"

"Do you know him, then? Is there anything wrong, Henri?"

"No, I do not know him. I have never heard his name. But—he is the cleverest man in Paris—and you"—the detective rushed back and forth before M. Lemaire's desk in excitement—"you, Jules, are the greatest idiot! Quick, your hat!"

"Are you mad?" cried M. Lemaire.
"What is the matter, Henri?"

Aroused by the scene, M. Lemaire's assistant curiously drew near; but Mouvenet, spying him listening, lowered his voice and whispered violently in the jeweler's ear.

M. Lemaire now also shouted: "Mon Dieu!" then choked for breath and shouted "Mon Dieu" still louder, and began to curse M. Jacques Loubet, in all of which his friend Mouvenet joined heartily. And the two, snatching up their hats, rushed out of the shop and drove madly off in the handiest cabriolet.

Now you have all the facts in the most singular case of the soldier and the silver. Can you deduce: What had the one-armed soldier done to cause this great commotion? And what led Mouvenet, the detective, to surmise it?

Answer Drawer, page 68





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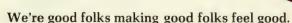
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Cranapple Road Blankets * Pillows * Outhouse * Haunted

GAMES&BOOK

Edited by Phil Wiswell

CIVILIZATION (Avalon Hill, around \$22)

Ambitious in scope and masterly in design, Civilization offers an exceptional blend of sophistication and simplicity that should make it a classic.

Each of two to seven players begins the game with a single piece that represents a small, nomadic Stone Age tribe living near the Mediterranean Sea. As populations (and the number of pieces) grow, the tribes are forced to slow their migrations and find suitable sites to build cities. Among other benefits, cities allow a player to acquire hides, salt, cloth, and other commodities, which can be traded with the other tribes.

When a player has collected goods of sufficient value, he can use them to purchase Civilization Cards, each of which represents a different attribute of a developing culture. Besides counting toward a player's final point total, these cards confer special powers and immunities during the play; a knowledge of Astronomy, for example, is needed before a player can navigate his ships across the open sea, while Coinage allows a player to tax his cities at flexible rates.

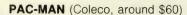
Long-range planning is essential. Too rapid a rate of urbanization will have just as bad an effect as too slow a rate, and the ideal timing is impossible to calculate. The strategic management of material goods is also difficult, since players must often decide whether to "spend" them on Civilization Cards immediately or to wait for the goods to increase in value in order to buy more with them on a subsequent turn.

Economic and population pressures eventually drive the tribes into border conflicts. But even though some combat occurs, Civilization is not a wargame; the object is not to eliminate the opponents (a nearly impossible task anyway) but to advance the level of one's own civilization as rapidly as possible. Of greater concern than border skirmishes are the "calam-



ities" that take place at unpredictable times and places: natural disasters like famine, flood, and earthquake, and man-made troubles like piracy and civil war.

The rules are remarkably easy to learn for a game with such breadth. Two introductory games can be played in about an hour each, but the "full game"—definitely the most interesting-takes perhaps three hours with two players, and more than 10 hours with a full complement of seven. This may seem like a drawback, but don't be surprised if you find that the game is too short. ---R.W.S.



Coleco's engineering department seems to be engaged in voodoo. The subject—Midway's coin-operated Pac-Man—has been shrunk to fit in your lap. In the process, it's lost bulk, a power cord, and its quarter slot but retained most of the original challenge. Sound effects, unfortunately, seem to have grown louder and harsher-you may want earplugs.

Unlike its arcade predecessor, Coleco's Pac-Man moves in staccato steps typical of hand-held games. The minigame's maze is different, having fewer dots and no fruits. But the game does have a hood to shade the screen, little joysticks to control the action, and ghosts, energy capsules, and escape tunnels that function much as they do in the arcade version. It even displays best score.

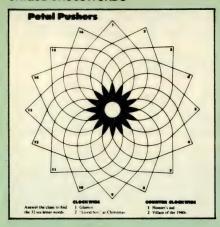
Included as bonuses are a two-player Head to Head variation and another called Eat & Run, in which there are no dots to munch, just energy capsules. All three games can be played on two skill levels.

Coleco will be introducing a line of similar tabletop games. including Galaxian, Frogger, Donkey Kong, Omega Race, and Berzerk. It looks like a long, sweaty-palmed summer. —P.M.W.

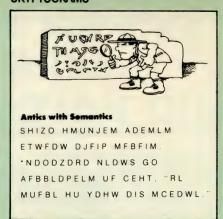


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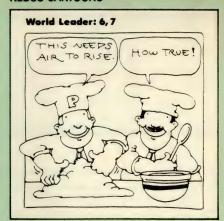
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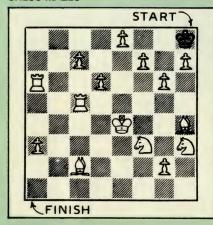
CRYPTOGRAMS



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	76B	77W	78F	79U	80V		810
	96N	1	970	98M	99E	100H	1011
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AIRSTIX (from Airstix, Inc., around \$25)

This inflatable construction toy has as many uses as your imagination can devise for it. You can build a raft strong enough to support your weight in water, make a pyramid and sit in it, even fight harmless battles using Airstix weapons.

Airstix are 10 light-weight vinyl cylinders, each about three feet long when inflated. They come rolled up (uninflated, of course) in a bucket, accompanied by a patch kit and a sheet of drawings that illustrate some of the things you can build. Loops at each end allow you to connect them in various architectural configurations, and varying the air pressure gives you even more possibilities; for instance, you can pass one partially inflated cylinder through the end-loop of another, and then lock the two together by fully inflating the first one.

Mere child's play? We don't think so.

—В.D.К.

BRAINTEASERS AND MINDBENDERS by Ben Hamilton (Prentice-Hall, 1981, \$4.95 paperback, \$11.95 hardcover)

For keeping the mind in top shape through mental calisthenics, Brainteasers and Mindbenders may be the perfect day-to-day training manual. The author, former puzzles editor for the British Games and Puzzles magazine, offers 365 puzzles, one for each day of the year. Starting in the middle is as good a place as any.

Although traditional brainteasers—short puzzles built around a story—are conspicuously few, the varied challenges include plenty of mathematical posers as well as several short logic problems. But most of the puzzles involve wordplay-anagrams, word squares, hidden words, and even some reminiscent of Games's "Wacky Wordies." In the following example, rearrange the letters of each word to get the name of a food. (PLAYERS becomes PARSLEY, for example.) Try these:

1. UNPASTE

4. UNSTRIP

7. MENTIONERS

2. ASSUAGE

5. ORBLETS

8. SOLEMN

3. SCUTTLE

6. ARIDNESS

The almanac format also commemorates the birthdays of some of puzzledom's leading figures by including some of the classics they created. There are special holiday teasers, too. But one of the major challenges of Brainteasers and Mindbenders may be to stick to only one puzzle a day.

Answer Drawer, page 72



BRIDGETTE (from Xanadu Leisure, Ltd., Box 10-Q, Honolulu, HI 96816; \$5.95 includes postage)

There's no question that bridge is the finest four-player card game ever invented, and the most popular. But when two players can't find a third and fourth-what then? Bridgette, a product of the early 1970s, was the answer until it disappeared from the market. Now, Prince Joli Kansil, its inventor, has brought it back with a number of refinements that have made a great game even better.

Bridgette adheres to the form of bridge, but not slavishly. The deck has been expanded to 55 cards by the addition of three different "colons," which subtly affect the game at several stages. For instance, if a colon is played as an alternative to following suit, it loses the trick but forces the opponent to lead a different suit on the next trick. Thus it can utterly ruin the opponent's best-laid plans.

Each player is dealt 13 cards, some of which may be exchanged to improve the hand. The number of cards exchanged varies, creating a mix of tame and wild deals.

Bids are partially limited by the player's holdings in the various suits. In the advanced game, "asking bids" and "cuebids" can be used to try to gain information about the opponent's high cards and suit distribution. But these devices can backfire: A player may find out, after forcing the bidding to a high level, that he can no longer reach a safe contract.—S.S.

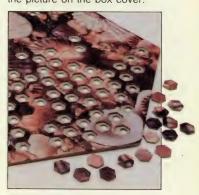
Starburst and TryAngle (Entex, \$9.99 each) both come in cube form, but they unfold into endless geometric shapes. As will later offerings in the Geomi-Trix series, these two puzzles fit together, making yet another puzzle of sorts.

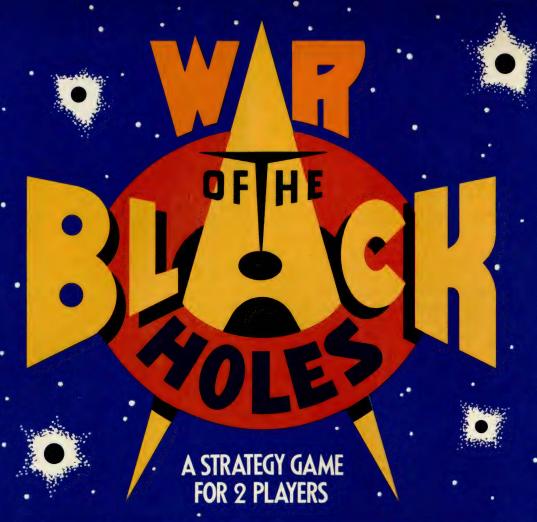




The Orb (Parker Brothers. \$6.50) poses the problem of arranging beads by color. The beads slide along four tracks, which can be realigned and scrambled by turning one of the Orb's hemispheres. We found it easier to solve than Rubik's Cube, but no less intriguing

V.I.P. (Western Publishing, \$5) should stand for Very Intimidating Puzzle. It's much harder than your average jigsaw, for not only are the pieces identical in shape, many are maddeningly similar in color and detail. Yet only one arrangement out of the 259 billion possible will correctly reproduce the picture on the box cover.





EQUIPMENT Two contrasting tokens to use as "spacecraft"; about 50 coins to use as "black holes"; and the gameboard shown.

OBJECT To force the opponent's spacecraft into a black hole.

MOVEMENT The spacecraft are placed on the "START" spaces at opposite sides of the board, and the players decide who moves first. In turn, each player moves his spacecraft counterclockwise, according to the following rules:

1. A spacecraft may move to a vacant space either within the same "orbit" (one of the four rings that make up the playing area) or within an adjacent orbit.

2. If it moves within the same orbit, it advances the number of spaces shown for that orbit on the board. For example, a spacecraft in the outermost orbit may advance either one or two spaces, at the option of the player moving it.

3. A spacecraft moving to an adjacent orbit first moves to an adjacent space in the new orbit and then completes its turn within that orbit. The total number of spaces moved, counting one for the change in orbit, must equal one of the numbers shown for the new orbit.

BY VAN PHILL

4. A spacecraft may not change orbits more than once per turn. If a spacecraft changing orbits begins its move adjacent to more than one space of the new orbit, it must enter that orbit on the space farthest ahead counterclockwise.

EXAMPLE The spacecraft in the diagram may move to any of the spaces marked but not to any other spaces.



BLACK HOLES After moving his spacecraft, a player places a black hole (one of his coins) on any vacant space adjacent to his spacecraft. If all adjacent spaces already contain black holes (or the opponent's spacecraft), the black hole is placed on any vacant space on the board.

A spacecraft may not end its move on a space containing either a black hole or the opponent's spacecraft, but it may move over such spaces (counting them normally in determining how far the spacecraft may move).

WINNING When a player's spacecraft

cannot move to a vacant space, the game ends and the other player wins.



A Distortion Dilemma

Who are the folks in the fractured photos?

Answer Drawer, page 70

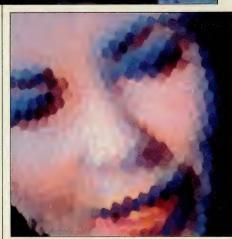
















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Writing for children is the perfect way to take up writing, says the author of 53 children's books. Your ideas come right out of your own experience.

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By Alvin Tresselt, Dean of Faculty

F you want to write and get published, I can't think of a better way to do it than writing books and stories for children and teenagers. Ideas flow naturally right out of your own life experience. While it's still a challenge, the odds of getting that first unforgettable check from a juvenile publisher are better than they are from just about any other kind of publisher I know.

Later on, you may get other checks from other publishers. But right now, the object is to begin—to break into print—to learn the feeling of writing and selling your work and seeing your name in type. After that, you can decide if you want your writing to take another direction.

But after 30 years of editing, publishing, and teaching—and 53 books of my own—I can tell you this: You'll go a long way before you discover anything as rewarding as writing for young readers.

Your words will never sound as sweet as they do from the lips of a child reading your books and stories. And the joy of creating books and stories that young people 'really like' is an experience you'll never have any where else. (In this age of boob tube illiteracy, convenient morality, and plastic values, do you know of a more important audience?)

A surprisingly big market

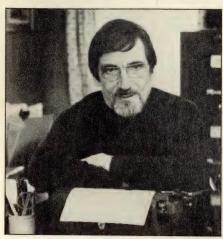
But, that's not all. The financial rewards go far beyond most people's expectations because there's a surprisingly big market out there for writers who are trained to crack it. More than 130 million young people's books are purchased each year. Between 2,000 and 2,500 new titles appear annually and new authors account for as many as half of them.

There are also 250 monthly magazines looking for material for young readers. You can imagine how much writing it takes just to keep them going!

Yet two big questions bedevil nearly every would-be writer: "Am I really qualified?" and "How can I get started?"

'Am I really qualified?'

This is our definition of a "qualified person": It's someone with an aptitude for writing who can take constructive criticism, learn from it, and turn it into a professional performance. That's the only kind of person we're looking for. The reasons are simple: Our reputation is built on success, and if prospective students don't have the earmarks of success, we probably can't help them. And we tell them so. It's only fair to both of us.



Alvin Tresselt was Vice President and Executive Editor of Parents' Magazine Press, the first editor of Humpty Dumpty's Magazine for Children, and a board member of the Author's Guild. His 53 books for young readers have sold over two million copies.

To help us spot potential authors, we've developed a revealing test for writing aptitude. It's free, and we don't charge for our evaluation. But no one gets into The Institute without passing it. Those who pass and enroll receive our promise: You will complete at least one manuscript ready to submit to a publisher by the time you finish the Course.

When we teach, you learn

I've learned a lot about writing for children and I love it. Now I'm passing my knowledge on to my students so they can profit from it. When I'm not writing my own books I spend my time at The Institute of Children's Literature, a workshop for writers that does only one thing and does it better than any other educational institution I know of: It trains qualified people to write for the young reader.

This is the way I work with my students, and my fellow instructors—all of whom are experienced writers or editors—work more or less the same way.

When you're ready—at your own time and your own pace—you send your assignment to me and I read it and reread it to get everything out of it you've put into it.

Then I edit your assignment with a red pencil just the way a publishing house editor would—if he had the time. I return it along with a detailed letter explaining my comments. I tell you what your strong points are, what your weaknesses are, and just what you can do to improve. It's a matter of push and pull. You push and I pull and between us both, you learn to write.

The proof of the pudding

This method really works. I wouldn't spend five minutes at it if it didn't. Last year we received hundreds of letters like these from successful students:

"Before taking your Course, the short stories I scribbled for my two tiny tots never caught an editor's fancy." writes Emily Burns of Salem, Ore.

"My first sale, to National Catholic Weekly, was a Course lesson. Then I sent another

Course assignment to a writer's competition and won first prize of \$400!"

"My instructor's advice was invaluable in plotting, character, motivation, and dialogue. I am most grateful for her personal interest and encouragement. Best of all she helped me understand my own strengths and weaknesses and how to emphasize the first and remedy the second. Better instruction hath no man than this!" Elizabeth Henley, New Cambria, Mo.

'Now...I am a writer!'

Marilyn Day of Marissa, Ill. says, "I'm proud of this accomplishment. Now I'm no longer a housewife, I am a writer!"

And Mary Carruth, Dublin, Cal., writes, "I sent out my first article with a prayer and a hope, and it was accepted. Your Course with its structure and support, has been everything I hoped for and needed."

"When I started this Course, I did not really think that I had the ability to write," writes Sister M. Laetitia Mudde, West Haven, Ct., "But my instructor made me believe in myself."

I have a file full of similar letters. People like yourself so full of pride they could easily convince you that indeed it is a pity more people—men and women—don't take up writing for children

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CONTEST RESULTS

U.S. OPEN CROSSWORD PUZZLE CHAMPIONSHIP

The Qualifying Puzzle (March/April) for the First U.S. Open Crossword Puzzle Championship had drawn some 6,500 entries by press time, with two weeks to go before the deadline. The solution appears on page 72 of this issue.

Two thousand people entered in the Participant Category, with hopes of competing in the championship finals on August 14 in New York City. Contestants in this category who submitted correct solutions were sent a set of four tiebreaker puzzles, two of which are as difficult as any crossword we've ever created. The 250 solvers with the highest scores will make it to the finals to compete for \$2,750 in cash and other

Nonparticipants outnumbered those who planned to see the contest through by better than 2 to 1. The winner of the \$500 prize in this category, to be selected by random draw from among the correct entries, will be announced in September, and a full report on the tournament will appear in a future issue.

If you would like a copy of the tiebreaker puzzles for casual solving, send a check or money order for \$2 (payable to Games) and a stamped, self-addressed envelope to Tournament Tiebreakers, Games, 515 Madison Avenue, New York, NY 10022. ---W.S.

IRISH BULLS

from March/April

You didn't have to be Irish to throw a little "bull" in our "An Irish Bull is Always Pregnant" Contest. An entry had to consist of two thoughts or actions that initially seemed sensible but in fact contradicted each other. The 3,900 entries we received reminded us of certain Bulls we never knew, such as "I'd give my last dollar to be a millionaire," "If you break your leg falling out of that tree, don't come running to me!" and "I'd give my right arm to be ambidextrous." Though many of the Bulls seemed obvious in their contradictions and common in their source (John Mc-Carthy's Home Book of Irish Humor), several gave us pause.

The grand prize winner, Bill Lorenz of Terre Haute, Indiana, submitted this gem: "I'm sorry, but I'm not going to apologize this time!"-spoken, he avows, by his friend Sue Czajkowski of McMurray, Pennsylvania. He gallantly turned the prize—an Irish fisherman's sweater-over to her.

Runner-up prizes of a Games T-shirt go to the following:

One medical student to another: "I was finally given a real live cadaver to work on!"-Phyllis Snyder, Jermyn, PA.

"You wouldn't recognize an act of kindness if it hit you in the face."-Joseph O'Gombarcik, Lakewood, OH.

When a school administrator asked a teacher why student performance was going down, the reply was: "We just seem to be getting a larger percentage of students in the lower one-third of their class."-Lee Ann Morrison, Peru, IN.

Boss to employee: "If you want to smoke in here, go outside."-W. M. Woods, Oak Ridge, TN.

"Tonight's attendance is . . . 3,257, including no-shows due to the inclement weather."-from the Akron Beacon Journal, February 4, 1982, submitted by Mark Hauenstein, Akron, OH. -G.D.

HIDDEN CONTEST

from March/April

Gotcha! Some of you, anyway. Of the approximately 3,750 entries to our Hidden Contest, 35 percent avoided all the curve balls, solved Cryptoquip #4 on page 33, and smelled out the rat in the "Hoax Hall of Fame." The Cryptoquip, spoken by our traditional April Fools' joker, translated as follows: "Yes! You've found the Hidden Contest! Now find the fake hoax in the hoax article. Tshirts for fifty correct entries drawn April thirteenth." The fake hoax was the Fab Four: The only concert tour the "Beatles II" ever took was through the fertile imagination of Andy Meisler, author of the hoax article.

All seven real hoaxes described in the article managed to fool some readers; each was guessed to be fake by between 100 and 350 entrants. Ninetyseven of you thought none of the hoaxes were fake, and 53 thought all were.

Contrary to what some entries suggested, Games really is going monthly; and Hoax: The Game of Imposters, reviewed on page 52, is a real game produced by Eon.

As promised, Games T-shirts will go to 50 randomly chosen entrants who found the Hidden Contest and identified —M.C.S. the fake hoax.

The 50 winners are: Leal Alberg, Battle Ground, WA; Jim Allsopp, Indianapolis, IN; David Brode, Shaker

(Continued on page 72)

THE SECOND GAMES PROPHECY CONTEST

from November/December 80

A year and a half ago, we challenged readers to make numerical predictions about eight 1981 events. The entry with the lowest total variance in predicting all the events would be the winner. All variances were expressed as positive numbers-that is, if an event generated a result of 53, predictions of either 56 or 50 were assigned a variance of 3. The correct answers were:

1. Total score in Superbowl = 37 (Oakland over Philadelphia, 27-10.)

- 2. Most Oscars won by one picture = 4 (Ordinary People)
- 3. Closing Dow Jones average (to the nearest point) on October 13 = 866

(It dropped nearly 10% from January.)

4. Winning score at the Masters Golf Tournament = 280

(Tom Watson won by two strokes.) 5. Number of different titles topping The New York Times Book Review hardcover fiction bestseller list = 6

(The Covenant, Gorky Park, Noble House, Cujo, The Hotel New Hampshire, and An Indecent Obsession)

6. Most home runs hit by an American League player plus most home runs hit by a National League player during the regular season = 53

(Mike Schmidt of the Phillies hit 31, and four AL players hit 22 each.)

- 7. Feet of snow, to the nearest foot, that fell in Buffalo during the year = 5
- 8. Payoff on a \$10 win ticket on the Kentucky Derby Winner = \$45

(Pleasant Colony earned 7-2)

We received nearly 2,000 sets of predictions, and used a computer to score them. The grand prize of a Tiffany Crystal Ball goes to Keith Hennessey of Weston, CT, who had a total variance of only 38.

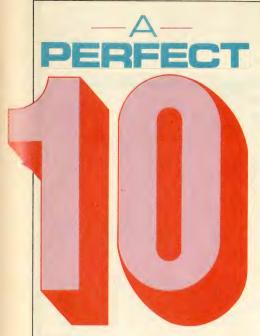
Runners-up were Mark Rosner of Queens, NY (variance 45), Zona Lapinsky of Saginaw, MI (47), Barbara Hordusky of Atlanta, GA (51) and James Ciciora of Mokena, IL (54). Each will receive a Games T-shirt.

The two questions that tripped up most prophets were the stock market closing and the home run prediction. Trend watchers might have noticed that the market has gone down in the first year of every Republican administration since Coolidge's; and it was possible for sports fans as well as true prophets to have foreseen the baseball strike and adjusted predictions accordingly. - J.A.

A GAMES CONTEST *

A Schwinn Varsity Sport

10-Speed Bicycle
A Games T-shirt



Fill in the grid with 100 letters to form the longest possible word in each row and column.

The Challenge As far as we know, no one has ever constructed a 10 × 10 crossword using 20 different 10-letter words. We'd like to see just how close our readers can come to finding such a "perfect 10."

Place any 100 letters in a 10 × 10 grid, arranging them so as to make the longest possible word in each row (reading left to right) and in each column (reading top to bottom). Words must read consecutively—extra letters may precede or follow the scoring word but may not appear inside it. Each of your 20 words must be different. Two words are considered "different" if they are spelled differently.

Scoring Each of the 20 words scores one point for each letter it contains. In the example at the top, you would calculate your score as follows:

ACROSS 1. STIGMATISM (10); 2. TER-RORIST (9); 3. REASON (6); 4. GRANARY (7); 5. MOLYBDENUM (10); 6. ARM (3); 7. INEPT (5); 8. BEER or LENS (4); 9. ZEPPELINS (9); and 10. STOIC (5)

DOWN 1. STIGMATIZE (10); 2. TERRORS (7); 3. REALMS (6); 4. BEEPS (5); 5. ABJURES (7); 6. DRILLS (6); 7. TINY (4); 8. SPENT (5); 9. USURPS (6); and 10. AROMATIC (8)

Total Score 132 points

	1				5			_	9	10
1	S	T	1	G	M	A	T	1	S	M
2	T	E	R	R	0	R		S	T	Α
3	1	R	E	A	S	0	N	P	U	R
4	G	R	A	N	Α	R	Y	E	S	0
5	M	0	L	Y	В	D	E	7	U	M
6	Α	R	M	В	J	R	Z	T	R	A
7	T	S	S	E	U		N	E	P	T
8	-	В	E	E	R	L	E	Z	S	1
									S	C
10	E	G	0	S	S	S	T	0	-	C

This sample entry is worth 132 points—68 below what a "perfect 10" would score.

Acceptable Words To be acceptable, a word must be recognized by Webster's Third New International Dictionary (Unabridged), where the word must either be listed in boldface or be an inflected form of a boldface entry. Comparative and superlative forms of adjectives are acceptable only if specified after the boldface entry; but for variant spellings and compound words, plurals and verb forms are acceptable if merely implied by the inflectional pat-

terns of related words. Words may contain apostrophes or accent marks. A word is unacceptable if it: (1) is composed of two or more component parts separated by a space; (2) contains a hyphen or period; (3) is designated only as capitalized or usually capitalized; (4) is not given a part of speech; (5) is listed only as an abbreviation; or (6) appears only in the Addenda.

How to Enter Complete the entry blank or a facsimile, listing your 20 words, the score for each, and your total score. You may enter as often as you wish, but each entry must be mailed separately. IMPORTANT: You must write your total score on the back of your envelope. Entries must be received by August 2, 1982.

Winning The entry with the highest total score wins. In the event of a tie, the entry with the most 10-letter words wins; among entries that still tie, the one with the most 9-letter words wins; and so forth. Remaining ties will be broken by random drawing.

	1.	2	3	4	5	6	7	8	9	10
1										
2										
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5										
6										
7										
8										
9										
10										

Name _____

City _____ State ____ Zip ____

Address

Clip or copy this coupon and mail to: Perfect 10, Games Magazine, 515 Madison Avenue, New York, NY 10022. Entries must be received by August 2, 1982.

ACROSS	Scoring Words	Score
1		Management
2		
3		
4		
5		
6		
7		
8		[
9		
		[
DOWN		
6		
7		
8		- Control of the Cont
9		
10		

Total Score



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WILD CARDS Edited by Lisa Feder



Wordplay

Back to the Nursery

Once you figure out what these sequences of letters have in common, you'll have no trouble supplying the next letter in each group.

- 1. JAJWUTH 2. HDDTC
 - 1
- 3. LBBCBYH
- 4. BBBSHYAW
- 5. JSCENF
- 6. LBPHLHS
 —Frederic H. Kock

Answer Drawer, page 71



Number Play

So Big



What is the largest number that can be written using only three digits and no other symbols?

Answer Drawer, page 71

Hall of Fame

Whose Life Is It Anyway?

Movie titles like "Patton" and "The Benny Goodman Story" tell you right up front who their subjects are. But sometimes you have to actually see the movie—or use your powers of deduction—to find out who it's about. Can you figure out whose life is portrayed in each of the movies listed below, and who played the "title role"?

- 1. Funny Girl
- 2. Man of a Thousand Faces
- 3. Fear Strikes Out
- 4. Bound for Glory
- 5. Coal Miner's Daughter
- 6. Follow the Sun
- 7. A Song to Remember
- 8. Rhapsody in Blue
- 9. Act One
- 10. Pride of the Yankees
- 11. Lady Sings the Blues
- 12. Raging Bull
- 13. Night and Day
- 14. Somebody Up There Likes Me
- 15. Reds

—Leon and Gayle Fleming

Answer Drawer, page 71

Teasers

Look it Up



What book has its preface in the middle, its appendix at the beginning, and reaches its climax before the plot appears? —Mel Stover

Answer Drawer, page 71

For the Record

Out of Place

If Michigan City is in Indiana, and there's a Connecticut Lake in New Hampshire, where are these mis-stated places?

- 1. The Colorado Desert
- 2. The Delaware Water Gap
- 3. The Florida Mountains
- 4. Virginia City
- 5. Missouri Valley

—Richard Sassaman

Answer Drawer, page 71

No Kidding

The Name's the Game

The group of people listed below may seem like an ordinary bunch, but each one's name anagrams to his or her profession. Can you discover what each person does? For example, *Tracy Rees* is a *secretary*, and *Sid Green?* He's a designer, of course.

Name Profession 1. Roy Tenat 2. Dan Greer

- 3. Janis Roult4. Neal Tericci
- 5. Patricia Dein
- 6. Irene Trenta7. Rachel Ogosti
- 8. Brock Kortes 9. Rose Helpurt
- 10. Tim Niser

-Asa Hall

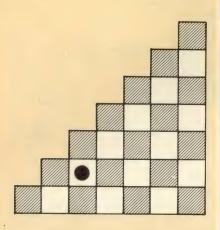
Answer Drawer, page 71

Logic

Square Dealer

One checker has already been placed on this piece of a checkerboard. Place nine more checkers, each on a different square, so that there are four checkers on each of five different lines.

—H.H.



Answer Drawer, page 71

Wordplay

Xhe Mxxxxng Kexs

Xhe xxpexxxxex on xhxch xhxx xax pxepaxed xx mxxxxng xxx kexs. X uxed an x xn all xhexx placex. Xhxch onex axe mxxxxng?

-Xobexx Nelxon

Answer Drawer, page 71

For the Record

Horse Sense

In equestrian statuary, it's the stance of the horse, not the hero astride him, that tells us what really happened. If all four hooves are on the ground, the rider died a natural death: one hoof in the air means he was wounded in battle: and if two hooves are raised, he was killed in battle.

-Dr. Ben Braude

Tough Nuts

It Plays Like Clockwork

Against South's contract of six clubs, West makes the friendly lead of the queen of spades. How does South make the small slam? Hint: The hand plays like clockwork.

-Mel Stover

NORTH

 6 5 4 3 2 ♡ A Q 6 ♦ A Q

+986

WEST

◆ Q J 10

♡ K I 3 2 ♦ K J 6 3 2

4 5

◆ AK987 ♥ 10 7 ♦ 10 7

EAST

7 4 3 2

SOUTH

♥ 9 8 5 4

♦ 9 8 5 4 ◆ A K Q J 10

Answer Drawer, page 71

Twists

Horseplay

The knight's tour, one of the oldest and most popular chess recreations, requires a knight starting at a given square to be moved in turn to each of the 64 squares on the board, visiting each square only once. Here's a knight's tour with a twist: Each of the 64 squares in the diagram at right contains one syllable of a 64-syllable poem, so when you have completed the tour you will have spelled out an eight-line stanza. The knight moves in the traditional way-either two squares vertically and one square horizontally, or two squares horizontally and one square vertically, in any direction. Starting in the upper left corner, we've indicated the first move to get you galloping. The first letter of each line and each proper noun are capitalized.

-Adapted from Chess Pieces by Norman Knight @ 1968 by Chess, Sutton Coldfield. Answer Drawer, page 71

START

The	for-	no	sor-	in	queen	-less	king
love	а	pawn	May	hath	his	sneer-	А
-tune	man	of	-tates	-ry	faith-	and	and
chess	es-	say	that	lawn	And	to	-eth
to	check	ls	wight	-teth	at	-un	Church
and	he	cas-	-shop's	-gal-	-ther	ha-	-al
His	sooth	him	our	Dis-	knight	the	Мо-
till	-tles	hath	-lant	bi-	good	-loy-	He



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Logic

Square Dealer

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-H.H

Wordplay

Xhe Mxxxxng Kexs

Xhe xxpexxxxex on xhxch xhxx xax pxepaxed xx mxxxxng xxx kexs. X uxed an x xn all xhexx placex. Xhxch onex axe mxxxxng?

-Xobexx Nelxon

Answer Drawer, page 71

For the Record

Horse Sense

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Tough Nuts

It Plays Like Clockwork

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-Mel Stover

NORTH

- 65432
- ♥ A Q 6 ♦ A Q
- +986

WEST

- **EAST** • AK987 ◆ Q J 10
- ♡ K J 3 2 ♦ K J 6 3 2

4 5

- ♥ 10 7 ♦ 10 7
- 7 4 3 2



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Horsepla

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-Adapted from Chess Pieces by Norman Knight @ 1968 by Chess, Sutton Coldfield. Answer Drawer, page 71

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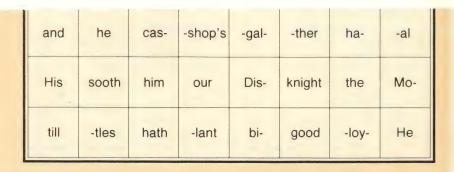
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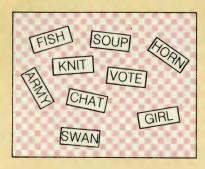
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Wordplay

Fish Soup



What kind of fish soup is this? The table is set, we've put our cards on it, and from here, it looks like a verbal bouillabaisse. In fact, it's a simple two-player game in which you and your opponent alternately draw cards with the object of obtaining three that share a common letter. The first player to achieve this wins. If your opponent has the first move and chooses the card marked KNIT, what's your best defensive move?

-from Your Move (McGraw-Hill) @1971 by David L. Silverman.

Answer Drawer, page 71

Private Games

Fan Mail

Ever wonder how to meet stars without going to Hollywood or a Broadway show?

Try flipping through a Zip Code directory. I met my screen idol 68344 99701—Douglas (Nebraska) Fairbanks (Alaska)—and also glimpsed none other than 98940 76680: Ronald (Washington!) Reagan (Texas).

Here are a half-dozen more I discovered. Can you add to the list?

- 1. 95376 78710: Tracy (CA) Austin (TX)
- 2. 57243 12068: Henry (SD) Fonda (NY)
- 3. 68787 02158: Wayne (NE) Newton (MA)
- 4. 07207 85939: Elizabeth (NJ) Taylor (AZ)
- 5. 92392 01936: George (CA) Hamilton (MA)
- 6. 70455 63665: Robert (LA) Redford (MO)

—Louis Phillips

Number Play

Vegetarian's Delight

Can you substitute a digit for each letter (with the same digit representing the same letter throughout) and make the veggies add up?

> CORN POTATO + TOMATO CARROT

—Sidney Kravitz Answer Drawer, page 71

Party Games

Running the Numbers



To get the best run for your money from this game, you'll need pencils, slips of paper, two large sheets of paper, and a couple of boxes or hats. Also, as many players as you can find, divided into two equal teams, and a referee.

The referee prepares two identical 10 x 10 grids of randomly arranged digits (from 0-9) on the two large sheets of paper.

Next, by "reading" the grid horizontally, vertically, or diagonally, he chooses 15 different numbers. These numbers can be from one to ten digits long, but they must be formed from consecutive digits in the grid. The referee copies each of these numbers on two slips of paper, and puts an identical set of 15 slips in each box.

The teams line up about ten feet apart, with one box set in front of the player at the head of each line. Each team's grid is posted far enough away so that the players cannot read it from where they are standing.

On the referee's signal, "Go!," a player from each team draws a slip of paper from the box, runs to his team's chart, circles the digits in that number with the pencil, runs back to the starting line, and tags the next player, who reaches into the box . . . Phew! The first team to find and circle all its numbers

-from I Hate Charades and 49 Other New Games by Phil Wiswell (Sterling Publishing Co., Inc.) @1981 by Sterling.

Look

The Makings of a Square



If you trace this shape four times and cut out the four identical pieces, they can be arranged to form a square. Do you see how? -P.M.W.

Answer Drawer, page 71

Tough Nuts

Odd One Out



In each group of five, four of the people listed have something in common and the fifth one is the odd one out. Can you find the outsider in each group?

- 1. Richard Nixon Lyndon Johnson Harry Truman Calvin Coolidge Dwight Eisenhower
- 2. Marilyn Monroe Raquel Welch Suzanne Somers Jayne Mansfield Loni Anderson
- 3. Steve Martin Lou Costello Ann Meara Gracie Allen Stan Laurel
- 4. Peter Pan Charlie Brown Rudolph (Reindeer) Woodstock ("Peanuts") Superman
- 5. Sigmund Freud John F. Kennedy Avatollah Khomeini Abe Lincoln Walt Whitman
- 6. Edgar Allan Poe Ellery Queen George Sand George Eliot O. Henry

-Wayne Williams Answer Drawer, page 71

No Kidding

The Well-Spelled Phrase

The phrases that follow may be familiar, but when it comes to spelling them you could be in dire straights-or is it straits? In the list below, seemingly logical explanations are given for two spellings of common phrases. Which is correct?

- 1. (a) PRAYING MANTIS (because its "arms" resemble those of person praying)
 - (b) PREYING MANTIS (because it's both carniverous and vorac-
- 2. (a) GIVE FREE REIGN TO (because 'reign'' means ''control'') (b) GIVE FREE REIN TO (by analogy to riding a horse)
- 3. (a) PLAIN GEOMETRY (because it's simpler than solid ge-
 - (b) PLANE GEOMETRY (because it's concerned only with two dimensions)
- 4. (a) RAISE CANE (because of the familiar image of an angry person waving his cane)
 - (b) RAISE CAIN (refers to the first murder in the Bible)
- 5. (a) WRACK ONE'S BRAINS (because hard thinking was once thought to destroy or "wrack" brain cells)
 - (b) RACK ONE'S BRAINS (because hard thinking "stretches" the mind, as a body on a rack)
- 6. (a) JUST DESSERTS (by sarcastic reference to "desserts" as a re-
 - (b) JUST DESERTS (because "desert" in this context means "something deserved")
- 7. (a) DIRE STRAITS (because a "tight spot" is analogous to a "strait," i.e., a narrow channel) (b) DIRE STRAIGHTS (by reference to frantic finishes in the "straights" of a horseracing track)
- 8. (a) RIGHT OF PASSAGE (as in right of way) (b) RITE OF PASSAGE (as in "ritual" or "ordeal")

-R.W.S. Answer Drawer, page 71



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Satisfaction qua	ranteed or money refunder	d Diease allow

Challenge Anyone?



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stration by Joe Lertola

6 Letters

It's No Picnic

The exception is ARC, hence ARCED and ARCING.

(I) Gamebits

You Auto Be in Pictures

From left to right, the year, make, and model (if special) of the chrome classics are:

Top row: 1958 Buick Limited Roadmaster, Super; 1956 Rambler; 1957 Mercury; 1959 Edsel; 1956-59 Nash Metropolitan.

Second row: 1950 Ford; 1951-53 Hudson Hornet; 1951-52 DeSoto; 1954 Cadillac; 1955 Packard Clipper.

Third row: 1951 Henry J Deluxe; 1954 Plymouth; 1953 Studebaker Champion; 1956 Chrysler; 1955 Lincoln.

Bottom row: 1954 Chevrolet; 1951 Kaiser Deluxe; 1955 Dodge; 1958 Oldsmobile 98; 1954 Pontiac.

These cars are featured on a poster-size calendar, "Chrome of the Fifties." Unregenerate hot-rodders can purchase one by sending \$6 to: Chope-Stevens Paper Company, 1800 18th Street, Detroit, MI 48216. Supplies are limited.

(Logic

Three Vacations

The third statement, "Mr. English did not go to France," is the only one that can be true and satisfy the conditions of the puzzle. Therefore, Mr. Lapp went to France, Mr. English went to Lapland, and Mr. French went to England.

Will the Real John Smith Stand Up?

Order of flights from first to last:

John S. Smith, accountant, New York, chess tournament

John F. Smith, surgeon, Paris, vacation John M. Smith, editor, Washington, convention

John H. Smith, steelworker, Los Angeles, wedding John A. Smith, actor, Houston, job interview

July 4 Homecoming

Keith and Linda, from Utah, arrived at 8 A.M. with three children.

Ron and Eileen arrived from Texas at 10 A.M. with two children.

George and Jill arrived from Japan at noon with one child

Frank and Carol arrived from Germany at 2 P.M. with one child.

Bob and Pat arrived from Wyoming at 3 P.M. with three children.

Bert and Wendy arrived from Arizona at 5 P.M. with two children

On the Road to Canterbury

Order of tales from first to last: Lewis, the Clerk, told the tale of Narcissus. Thomas, the Miller, told the tale of Esther. Derek, the Franklin, told the tale of Orlando. Hugh, the Summoner, told the tale of Robin Hood. Piers, the Knight, told the tale of St. George.

49 Solitaire Hangman

1	Destiny	VI.	Equinox
1.	Destiny	VI.	Equinox
11.	Formula	VII.	Javelin
111.	Renegade	VIII.	Lullaby
IV.	Biscuit	IX.	Blizzard
V.	Subdued	Χ.	Sawhorse

1 The Soldier and the Silver

The one-armed soldier had swindled the jeweler out of 1,300 francs.

Mouvenet saw that the jeweler, Jules Lemaire, had been plausibly tricked into giving the one-armed soldier a request for money in the jeweler's handwriting-a note to which the soldier had signed merely the initials "J. L." (which might stand for "Jacques Loubet," the name the soldier had given as his own, or equally well might be regarded as the initials of Jules Lemaire, the jeweler).

In short, the soldier had obtained a document addressed to no one in particular, which requested the recipient to give 1,300 francs to the bearer. Mouvenet suspected that this clever trick might have been worked in order to impose upon the jeweler's wife or on some other person who would immediately recognize the jeweler's handwriting and therefore never question the document.

M. Lemaire and Mouvenet, the detective, drove hastily to the jeweler's home, where their worst fears were realized. Mme. Lemaire greeted them, glowing with curiosity as to what bargain her husband had bought with the 1,300 francs. She had given the money to the "corporal" (who was of course the confederate of the "captain") without the slightest suspicion. The scheme had been carried out so cleverly that the jeweler's native caution had never once been aroused. The name of "Jacques Loubet" had been assumed, of course, because its initials were the same as Jules Lemaire's.

Neither the one-armed "captain" nor his confederate was ever caught.

-Reprinted from The Second Baffle Book by Lassiter Wren and Randle McKay. @1929 by Doubleday, Doran & Company, Inc.

Old Glory

_	_																_		_	
T	R	0	T		Α	M	В	E	R				D	Α	T	E		D	A	M
R	0	P	E		В	E	L	L	E		P	A	R	L	Α	Y	1	E	L	1
Α	D	A	M	16	E	N	0	L	A		A	P		E	C	E		E	L	L
C	A	R	P	E	T	D	W	Α	R	F	P	E	N	C	1	L		R	Y	E
E	N	T	E	N	T	E		97		L	A	R	K	18	T	E	C	H	100	W)
100			R	U	E	D		P	E	A	L	S			1	T	0	0	T	H
A	S	H	A	R	D		W	0	N	T		-	A	В	E	1	P	U	R	Α
C	N	0	T	E	36		0	L	D		A	F	R	T	T		T	S	Ε	L
R	0	T	E			C	R	0	S	S	F	L	A	G	C	H	E	E	S	E
E	W	E		П	R	A	N			A	R	E		S	H	A	R	D	S	
		L	T	N	E	N		C	0	C	0	A		H	E	S	S			
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C	A	P	C	0	L	L	A	R	В	0	N	N	E				L	n	L	T
A	S	H	E		T	E	L	L	S		0	U	T			C	Ī	L	Ī	A
S	T	A	N		Y	S	L			T	0		A		R	A	M	S	E	Y
S	E	N	S	E	3	1		C	0		K			S	A	R	1			
- 24	_	T	E	S	S		A	R	A	B				T	M	1	T	A	T	E
G	0	В		C	L	0	V	E	R	М	A	T	T	E	R	B	L	0	O	D
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A	S	K		W	E	S	T				D	E	E	D	S		S	À	S	S
-		-				_	-		_		-	-	_		-		_	-	_	-

1 etter Carriers

•					
1. [DA	(cedar)	7.	LP	(clump)
2.	MC	(march)	8.	AM	(camel)
3.	TD	(timid)	9.	CB	(scrub)
4.	TV	(stove)	10.	VP	(vapor)
5.	IQ	(pique)	11.	ID	(ideal)
6.	UN	(chunk)	12.	PS	(pushy)

2 A Day at the Beach

- 1. (H) Arriving at the beach: the woman is driving and the boy is wearing a shirt and has dry hair
- 2. (J) Soon after settling on the beach, the boy is starting to build a sand castle and the woman has just started reading Jaws. The jug of iced tea is full, and the umbrella has not been opened.
- 3. (L) The sand castle is nearer completion; the beach ball has not been inflated.
- 4. (A) The umbrella is being opened; the woman is covering her nose with a sun screen.
- 5. (I) The sun screen is visible on the woman's nose, and she is in the middle of Jaws. The jug of iced tea is still full and the beach ball is still uninflated. A jogger has appeared in the background.
- 6. (G) The scene is identical to picture I, but the jogger has run a bit farther.
- 7. (F) The iced tea is half gone. The beach ball is still uninflated (the fact that it has moved slightly has no significance).
- (B) The beach ball is being inflated.
- 9. (K) The beach ball is in use. The jug of iced tea is still half empty and the sand castle has been trampled.
- 10. (C) The iced tea is all gone. The man is wearing sunglasses.
- 11. (D) The boy has broken the man's sunglasses 12. (E) Going home: the man is in the driver's seat emptying sand from his shoe, and he has no sunglasses. The boy is wearing a towel around his shoulders and has wet hair.

1 Cryptic Warm-Up Puzzle

ACROSS

- 1. ARSON. The word ARSON ("setting fire to a building") is PARSON ("preacher") beheaded, or missing its first letter.
- ROOST. The word ROOST ("nest," as a verb) is literally found among the letters of "kangaROOS" Temporarily.'
- DREAD. If you rearrange the letters of ADDER, you get the answer DREAD ("fear"). The word 'coiling" suggests the mixing of letters.

DOWN

- 1. AIRED. The word AIRED ("televised") is IRE ("anger") inside AD ("commercial").
- SCORE. The word SCORE means both "twenty" and "songs in a musical."
- NOTED. The words NO (given directly in the clue) and TED ("member of the Kennedy family") make NOTED ("famous").

The Beadless Abacus

- To give a total of the operations in any three cells in a row, perform the operation in the next cell beyond the row of three, at either end of it, and subtract the result from 34.
- 2. A row of four is even easier: Its total will always be 34
- 3. All you need to do is glance at the operation in the central cell of the cluster, perform it, and subtract that answer from 68. The result will be the sum of the operations in all seven cells.

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ENEMY BATTLE ACTION



DOCKING SEQUENCE



GALACTIC CHART





© 1982 Activision, Inc.

2 The Grand Tour

The route from the bridge to Washington, D.C,. is shown below

The official and unofficial state nicknames illustrated in the maze in the order in which they are encountered: Arizona-Apache State; Utah-Beehive State; California-Golden State; Nevada-Sagebrush State; Idaho-Gem State; Oregon-Beaver State; Washington-Evergreen State; Montana-Treasure State; Wyoming-Equality State; Nebraska—Cornhusker State; South Dakota—Coyote State; North Dakota—Flickertail State; Minnesota-Gopher State; Iowa-Hawkeye State; Missouri-Show Me State; Illinois-Land of Lincoln; Wisconsin-Badger State; Michigan-Wolverine State; Ohio-Buckeye State; Indiana-Hoosier State; Kentucky—Bluegrass State; Kansas—Sunflower State; Colorado—Centennial State; New Mexico— Land of Enchantment; Oklahoma—Sooner State; Arkansas-Razorback State (we couldn't figure out how to illustrate "Land of Opportunity"); Texas-Lone Star State; Louisiana Pelican State; Mississippi-Magnolia State; Tennessee-Volunteer State; Alabama—Heart of Dixie; Florida—Sunshine State; Georgia-Peach State; South Carolina-Palmetto State; North Carolina-Tar Heel State; Virginia—Mother of Presidents; Maryland—Free State; Delaware—First State; New Jersey—Garden State; Connecticut-Nutmeg State; Rhode Island-Ocean State; Massachusetts-Bay State; Maine-Pine Tree State; New Hampshire-Granite State; Vermont—Green Mountain State; New York—Empire State; Pennsylvania—Quaker State; West Virginia-Mountain State; and Washington, D.C., the capital. Also in view are Hawaii (Aloha State) in the lower left, and Alaska (The Last Frontier) in the upper left

Not counting the nickname illustrations, we found eleven human faces hidden in and around the architecture of the fortress. Can you do better? (This is not a hidden contest.)

Dszquphsbnt!

1. CRYPTOON. "Maybe you can help me. I want something that will cause crabgrass to die as slowly and painfully as possible.

2. THE WONDERS OF PROGRESS. Isn't it great? Maybe you once were a small cog in the machine, but now you can take pride in being a key digit in the

3. INVESTMENT HINT. He who stuffs his mattress with bucks may not be getting any interest, but he will always have something to fall back on.

4. SENSE OF HUMOR. Some people get three laughs from a joke: when they hear it, when you explain it to them, and when it finally soaks in.

5. FLIGHT PLAN. Notice posted on an office wall: It is hard to soar with eagles when you have to work with

6. LAW OF THE ROAD. Old proverb states that two wrongs do not make a right, but in traffic three rights make a left. Right?

7. NOT SO UNUSUAL. The Bermuda Triangle really has no monopoly on strange disappearances. They can happen at any time around my house.

Cryptic Crossword

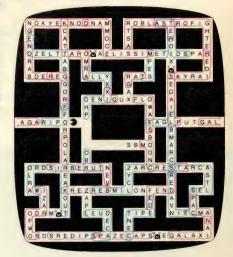
ACROSS

- Chowder (he'd crow)
- Thurber (Burr the)
- Money (my + one)
- 10 Anarchies (an + Archie's)
- 11 One-night stand (two meanings)
- 13 Tepee (tee + P.E.)
- Queen-size (squeeze in)
- 16 Northeast (Ron + the + a + St.)
- Amend (ad + men)
- 19 Counterfeiter (counter fitter)
- 23 Fluttered (fled + utter, & lit.)
- 24 Irish (iris + h-middle letter of "the")
- 25 Overdid (O.D. + Verdi)
- 26 Stand-up (two meanings)

DOWN

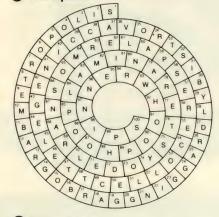
- Comforting (coming + fort)
- Ounce (on cue)
- Daytime (date I'm)
- Roach (repROACH)
- Transient (tent + rains) Unchain (UNCHAstity + in)
- Blind mice (climbed in)
- Rash (Sarah a)
- 12 Leadership (said helper)
- 14 Parachute (reach up at)
- 15 Quartered (two meanings)
- 17 Haunted (tune had)
- America (camera + I)
- 20 Rides (bride's b)
- Tried (it red)
- 22 Afro (for a)

W Video Play





The Spiral



1 Noah's Ark

- 1. Caftan
- Melancholy 3. Investigator
- 4. Nightmare

- Rampage 6. Euphonious
- 7. Cardiac 8. Hypocritic
 - 9. Conceal
 - 10. Bumble
- Dandelion
- 12. Tycoon

Eyeball Benders

Top row, left to right: Muhammad Ali, Bob Dylan, Martin Luther King, Jr.

Middle row: Tip O'Neill, Phil Donahue, Liv Ullmann Bottom row: Elizabeth Taylor, Burt Reynolds, Elvis

Geoffrey Gove created these "fractured portraits" by photographing images on his TV screen through variously patterned sheets of refractive glass or plastic, a technique he has been experimenting with for the past nine years. The faces become "puzzles or perceptual exercises," he says, bridging the line "between recognition and abstraction." No matter how distorted the images, you'll find that if you squint or hold the page at arm's length, the faces will miraculously leap into focus.

4 Heads Up!

- 1. Heads or tails
- Arrowhead
- The Headless Horseman
- Headquarters
- Thunderhead Headpin
- 7. Masthead
- 8. Copperhead
- Diamond Head 10. Doubleheader
- 11. Two heads are
- better than one 12. Head start
- 13. Jughead
- 14. Head over heels

Breaking Away

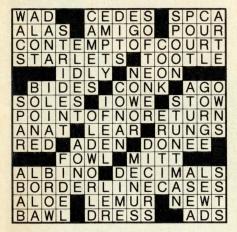


Double Cross

A	CENTER FIELD	M	NOON
B.	HEATHEN	N.	SENATE
C.	ATTENDANT	0.	HOUSTON
D.	ROUNDABOUT	P.	UNIFYING
E.	LIBATIONS	Q.	NEW HAVEN
F.	ENVISAGE	R.	TOASTY
G.	SOOTHE	S.	EQUITABLE
H.	DYNASTY	T.	DATA .
1.	INVENTION	U.	DETAIN
J.	COTTONY	٧.	OUTFLANKS
K.	KICKBACK	W.	WHITEFISH
L.	ETYMOLOGY	Χ.	NOTEWORTHY

I have known a vast quantity of nonsense talked about bad men not looking you in the face. Don't trust that conventional idea. Dishonesty will stare honesty out of countenance, any day in the week, if there is anything to be got by it.-Charles Dickens, Hunted Down

Anyone for Tennis



(1) Inside Track

- 11. Breathtaking Awkward Synonym
- Proportion Assassinate 13. Soliloguy
- Candidness Folklore 14. Crybaby Corroborate
- 6. Werewolf 16. Completely Extramarital or ultramarine Workroom 17.
- Monotony 18. Physicist 19. Hangnail Gridiron

20. Polysyllabic 10. Footstool Other answers are also possible. Consult your dictionary for verification.

WILD CARD ANSWERS

Back to the Nursery

These sequences represent the first letters of the opening words of some well-known nursery rhymes. Their titles, and the next letter in each sequence, are as follows:

- "Jack and Jill" (T
- 'The Cat and the Fiddle'' (A)
- "Little Boy Blue" (T)
 "Baa Baa Black Sheep" (Y)
- 'Jack Sprat'' (H)
- "Little Bo Peep" (A)

6 So Big

999, which equals 9 387,420,489. If this number were calculated and written out at five digits per inch, it would require a strip of paper 1,167 miles long.

Whose Life Is It Anyway?

- Fanny Brice, played by Barbra Streisand
- Lon Chaney, James Cagney Jimmy Piersall, Anthony Perkins
- Woody Guthrie, David Carradine Loretta Lynn, Sissy Spacek
- Ben Hogan, Glenn Ford
- Frédéric Chopin, Cornel Wilde
- George Gershwin, Robert Alda
- Moss Hart, George Hamilton
- 10. Lou Gehrig, Gary Cooper
- Billie Holiday, Diana Ross
- Jake La Motta, Robert De Niro
- Cole Porter, Cary Grant
- Rocky Graziano, Paul Newman
- John Reed and Louise Bryant, Warren Beatty and Diane Keaton

(B) Look it Up

The dictionary

- The Colorado Desert is in California.
- The Delaware Water Gap bridges Pennsylvania and New Jersey.
- The Florida Mountains are in New
- Virginia City is in Nevada.
- The Missouri Valley is in Iowa.

63 The Name's the Game

- Roy Tenat is an attorney
- Dan Greer is a gardener
- Janis Roult is a journalist
- Neal Tericci is an electrician
- Patricia Dein is a pediatrician Irene Trenta is an entertainer
- Rachel Ogosti is an archeologist
- Brock Kortes is a stockbroker
- Rose Helpurt is an upholsterer
- 10. Tim Niser is a minister

64 Square Dealer



64 The Missing Keys

The puzzle reads: "The typewriter on which this was prepared is missing six keys. I used an x in all their places. Which ones are missing? —Robert Nelson." The answer: I R S T W Y.

64 It Plays Like Clockwork

South ruffs the spade lead, takes a red suit finesse (i.e., leads toward either red queen),

ruffs another spade, and takes another red suit finesse. South then ruffs another spade and plays to a red ace, then ruffs another spade and plays to the other red ace. Finally, he ruffs the last spade and leads a diamond, on which dummy's heart is discarded. East has no choice but to ruff and return a trump, allowing dummy to take the last three tricks.

64 Horseplay

The poem is an anonymous verse, probably dating from the 18th century. Note that it includes the names of all the chess pieces.

The man that hath no love of chess ls, sooth to say, a sorry wight, Disloyal to his king and queen A faithless and ungallant knight. He hateth our good Mother Church And sneereth at the bishop's lawn. May fortune check him till he hath His castles and estates in pawn.

65 Fish Soup

Your best move-and the only way to avoid losing—is to take the card marked HORN. If the cards are arranged in a 3-by-3 grid as shown, "Fish Soup" emerges as a disguised version of tic-tac-toe. The eight rows share these common letters: I, O, and A for the vertical columns; S, R, and T for the horizontal rows, and H and N for the two diagonals. Viewed in this way, KNIT is a corner card, and the only way to defend a corner opening is to take the center; that is, HORN.

FISH	SOUP	SWAN
GIRL	HORN	ARMY
KNIT	VOTE	CHAT

66 Vegetarian's Delight

6437 145954 +540954693345

The Makings of a Square

Here's how to make a square from the shape given:



Odd One Out

- Dwight Eisenhower. The others are vicepresidents who became presidents.
- Raquel Welch. All the rest are blondes.
- Steve Martin. The others are halves of comedy teams
- Charlie Brown. All the rest can fly.
- John F. Kennedy. The others all have
- Edgar Allan Poe. All the rest are noms de plume.

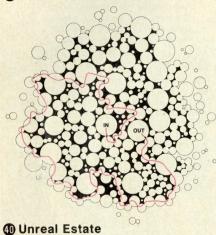
The Well-Spelled Phrase

- (a) praying mantis 5.(b) rack one's brains
- (b) give free rein to 6. (b) just deserts (b) plane geometry 7.(a) dire straits
- 4. (b) raise Cain 8.(b) rite of passage

(3) Geometry Lesson



Bubble Trubble



- 1. Swiss Family Robinson
- Old MacDonald
- Witch in "Hansel and Gretel"
- The Odd Couple
- Ben Cartwright
- Archie Bunker
- Scarlett O'Hara

The Flags of Summer

The flags of summer, as they appear on commercial airplanes, are:

10. Delta

US Air

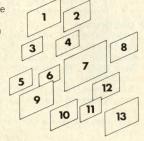
Pan Am

11

13.

Northwest Orient

- Lufthansa
- Air Canada
- Swissair
- Eastern
- United
- 6. Air France
- Alitalia
- 8 American Airlines
- 9 TWA



Games and Books **Brainteasers and Mindbenders**

- Peanuts Sausage
- 5. Lobster
- Cutlets
- 6. Sardines Minestrone
- 4. Turnips
- 8. Melons or lemons

Hidden Contest Winners from March/April

(continued from page 60 Heights, OH.; Thomas Cassidy, Staten Island, NY; Barbara Chambers, Proctor, MN; Gail Chapter, Massapequa, NY; Charles Connolly, (ansalem, PA; Joseph Curley, Martinsville, NJ; Dawn Cwynar, Grand Rapids, MI; Edward Dubray, MB, Canada; Barry Ekstrand, Bakersfield, CA; Fran Fagan, Newton, NJ; Adele L. Fergus-O'Brien, Highland, CA; Wayne Gardner, El Paso, TX; Joan A. Gerry, Melrose, MA; Daniel A. Handelman, Scarsdale, NY; Julie Hanlon, Emery, SD: Carol Hannah, S. Euclid, OR; Michael S. Harbach, Reading, PA; William Heyser, Norristown, PA; David Higley, Kearns, UT; Marnie Hilash, MB, Canada; Brad Horne, Lawler, IA; Dawn Isaac, Twining, MI; Kelley Jon Kelvin, Lake Havasu City, AZ; Robert P. Kitke, Rahway, NJ; Jeff Kress, Bridgeport, CT; Fredrica Lake, Houston, TX; Sally Lautzeneiser, Cuyahoga Falls, OH; Lynne Libke, Brooklyn Center, MN; Mike Lindgren, St. Cloud, MN; Wayne Lossing, Havre, MT; Herman A. Markwart, Highland, MI; William M. Mills, Altona, IL; Ted Moser, Berne, IN; Judy Portinga, Marshall, MI; Barbara Rigsby, Tulsa, OK; Jordan Schildcrout, Youngstown, OH; Gayle Ann Schwartz, Silver Spring, MD; Sally Seamans, Beverly Farms, MA; Melody L. Snure, Apple Creek, OH; Bruce Tidwell, Chicago, IL; Patty Tompkins, Amherst, NH; Holly Valenta, Omaha, NE; Wendell Wagner, Jr., Laurel, MD; Kathi Webster, Amherst, NH; Frank Wilson, Jr., Hanover, PA; Vera D. Wood, Littleton, CO; Gary Kenneth Woodley, NF, Canada.

1 Why Y?

The "Y" objects are (top to bottom, left to right):

Yoda

Yamaha

Y" in semaphore Yew plant Yellowstone National Park Yoko Ono Yak wearing a yoke

Yogi Bear Yield sign Wine Wise owl

Yolk Yacht Mammy Yokum Robert Young Yin/yang

Yippie (Abbie Hoffman) Yale key

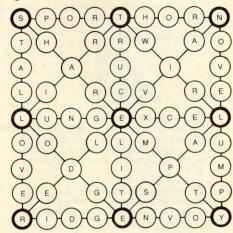
Winding road Yellow Pages Wise man wearing

yarmulke speaking Yiddish Yawn

Yellow cab Gene Wilder Yvette Mimieux Yorkshire terrier Yahtzee Yeast Yukon Yogurt Neil Young Wyatt Earp Jane Wyman Loretta Young Yankee Yogi Berra Yoga Tammy Wynette Yo-Yo Ma Yo-yo Y. A. Tittle

Yule log Yul Brynner Andrew Young Carl Yastrzemski Yugoslavian flag Yarn

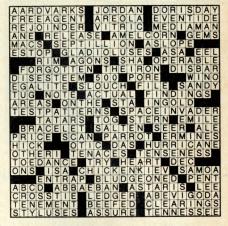
Boxed Fives



Fake Advertisement

The "Fake Ad" announced in the Table of Contents was for the Vacation Inn and appeared on Photos by Don Wright.

From March/April Qualifying Puzzle, page 44 U.S. Open Crossword Puzzle Tournament



Cryptoquip #4, page 33

Yes! You've found the hidden contest! Now find the fake hoax in the hoax article. T-shirts for fifty correct entries drawn April thirteenth. (For a full report on the March/April hidden contest, see page 60.)

Eureka is dedicated to those venturesome spirits who, never settling for a ready answer, have fought their way to a better, more elegant, or more complete solution than one previously given in the Answer Drawer.

*Your Move (May/June, page 4). Rheo Rouillard of Holyoke, MA, and Dale Ostrum of St. Paul, MN, each submitted solitaire cribbage hands scoring 172 points, bettering our own best effort of 168. Both solutions are variations of the following layout:



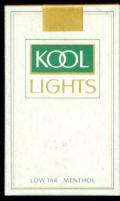
★Breakfast Special (May/June, page 25). Beck Thiessen of Toledo, IA, and Michael Ostrowski of Chicago, IL, were the first readers to submit plausible alternatives to our time-sequence puzzle. Each suggested that photo K-the only one in which the newspaper is open to the front page rather than the classified section—could have come first rather than last. Ostrowski speculated: "The customer comes in with the paper, places an order, turns to the Help Wanted section, fidgets with the salt and pepper shakers (out of worry over unemployment), stops to eat, and then takes the paper when leaving." Our sequence implied that the newspaper in K belonged to the next customer.



There's only one way to play it...

Wherever the music is hot, the taste is Kool. At any 'tar' level, there's only one sensation this refreshing.







Original

Low 'tar'

2 mg.

